

# SCORE Search Results Details for Application 10728491 and Search Result us-10-728-491-1.max.rnpbm.

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Title: US-10-728-491-1  
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Sequence: 1 ggcugcgugccuccucacugg 21

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SEARCH REQUEST FORM

Requester's Full Name: JANE ZARA Examiner #: 77512 Date: 11-13-06  
Art Unit: 1635 Phone Number: 2-0765 Serial Number: 101728, 491  
Location (Bldg/Room#): 2A59 (Mailbox #): 2018 Results Format Preferred (circle): PAPER DISK  
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To ensure an efficient and quality search, please attach a copy of the cover sheet, claims, and abstract or fill out the following:

Title of Invention: Hugh Effbreig AS Rialpha  
Inventors (please provide full names): T. H. WANG et al.

Earliest Priority Date: 12-5-03

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Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc., if known.

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# SUMMARIES

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	4	21	100.0	23	8	US-10-728-491-22	Sequence 22, Appl
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	7	20	95.2	21	8	US-10-728-491-10	Sequence 10, Appl
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	9	19.4	92.4	21	8	US-10-728-491-12	Sequence 12, Appl
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	13	19.4	92.4	21	8	US-10-728-491-16	Sequence 16, Appl
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c 200	13.6	64.8	25	16	US-11-136-527-335292	Sequence 335292,
c 201	13.4	63.8	18	11	US-10-310-914A-1069624	Sequence 1069624,
202	13.4	63.8	18	11	US-10-310-914A-1092116	Sequence 1092116,
c 203	13.4	63.8	18	11	US-10-310-914A-1173315	Sequence 1173315,
c 204	13.4	63.8	19	11	US-10-310-914A-810341	Sequence 810341,
c 205	13.4	63.8	19	11	US-10-310-914A-1173317	Sequence 1173317,
c 206	13.4	63.8	19	14	US-11-083-784-465001	Sequence 465001,
c 207	13.4	63.8	19	14	US-11-083-784-1213678	Sequence 1213678,
c 208	13.4	63.8	19	15	US-11-101-244-465001	Sequence 465001,
c 209	13.4	63.8	19	15	US-11-101-244-1213678	Sequence 1213678,
c 210	13.4	63.8	20	3	US-09-915-814-133	Sequence 133, App
211	13.4	63.8	20	11	US-10-310-914A-79489	Sequence 79489, A
212	13.4	63.8	22	11	US-10-310-914A-1110482	Sequence 1110482,
213	13.4	63.8	23	11	US-10-310-914A-1110505	Sequence 1110505,
c 214	13.4	63.8	23	11	US-10-310-914A-1118873	Sequence 1118873,
c 215	13.4	63.8	23	11	US-10-310-914A-1118884	Sequence 1118884,
c 216	13.4	63.8	24	7	US-10-279-633-40	Sequence 40, Appl
217	13.4	63.8	24	11	US-10-310-914A-79540	Sequence 79540, A
c 218	13.4	63.8	25	6	US-10-098-263B-47432	Sequence 47432, A
c 219	13.4	63.8	25	8	US-10-681-773-84904	Sequence 84904, A
c 220	13.4	63.8	25	8	US-10-681-773-84905	Sequence 84905, A
c 221	13.4	63.8	25	8	US-10-719-956-80007	Sequence 80007, A
c 222	13.4	63.8	25	8	US-10-719-956-116648	Sequence 116648,
223	13.4	63.8	25	8	US-10-719-956-277080	Sequence 277080,
224	13.4	63.8	25	8	US-10-719-956-361987	Sequence 361987,
c 225	13.4	63.8	25	8	US-10-719-956-673267	Sequence 673267,
c 226	13.4	63.8	25	9	US-10-719-900-300874	Sequence 300874,
c 227	13.4	63.8	25	9	US-10-719-900-381370	Sequence 381370,
c 228	13.4	63.8	25	9	US-10-719-900-685506	Sequence 685506,
c 229	13.4	63.8	25	10	US-10-809-189-40807	Sequence 40807, A
c 230	13.4	63.8	25	10	US-10-956-157-282967	Sequence 282967,
c 231	13.4	63.8	25	11	US-10-933-982-155053	Sequence 155053,
c 232	13.4	63.8	25	13	US-11-036-317-724865	Sequence 724865,
233	13.2	62.9	19	11	US-10-310-914A-311589	Sequence 311589,
c 234	13.2	62.9	19	11	US-10-310-914A-1093310	Sequence 1093310,

c 235	13.2	62.9	19	11	US-10-310-914A-1207475	Sequence 1207475,
c 236	13.2	62.9	19	14	US-11-083-784-1140979	Sequence 1140979,
c 237	13.2	62.9	19	15	US-11-101-244-1140979	Sequence 1140979,
c 238	13.2	62.9	21	11	US-10-310-914A-481413	Sequence 481413,
c 239	13.2	62.9	21	11	US-10-310-914A-635415	Sequence 635415,
c 240	13.2	62.9	21	11	US-10-310-914A-993076	Sequence 993076,
241	13.2	62.9	22	11	US-10-310-914A-650325	Sequence 650325,
c 242	13.2	62.9	22	11	US-10-310-914A-993927	Sequence 993927,
c 243	13.2	62.9	23	11	US-10-310-914A-635424	Sequence 635424,
244	13.2	62.9	23	11	US-10-310-914A-969689	Sequence 969689,
c 245	13.2	62.9	24	11	US-10-310-914A-967765	Sequence 967765,
c 246	13.2	62.9	24	11	US-10-310-914A-1207486	Sequence 1207486,
247	13.2	62.9	25	3	US-09-754-853A-574	Sequence 574, App
c 248	13.2	62.9	25	8	US-10-719-956-52619	Sequence 52619, A
c 249	13.2	62.9	25	8	US-10-719-956-151905	Sequence 151905,
250	13.2	62.9	25	8	US-10-719-956-451859	Sequence 451859,
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252	13.2	62.9	25	9	US-10-719-900-196672	Sequence 196672,
c 253	13.2	62.9	25	9	US-10-719-900-273321	Sequence 273321,
c 254	13.2	62.9	25	9	US-10-719-900-328024	Sequence 328024,
255	13.2	62.9	25	9	US-10-719-900-706703	Sequence 706703,
c 256	13.2	62.9	25	10	US-10-809-189-15028	Sequence 15028, A
c 257	13.2	62.9	25	10	US-10-956-157-238938	Sequence 238938,
c 258	13.2	62.9	25	10	US-10-750-185-23764	Sequence 23764, A
c 259	13.2	62.9	25	10	US-10-750-623-23764	Sequence 23764, A
c 260	13.2	62.9	25	11	US-10-932-182A-137062	Sequence 137062,
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262	13.2	62.9	25	11	US-10-933-982-192491	Sequence 192491,
263	13.2	62.9	25	11	US-10-933-982-192496	Sequence 192496,
c 264	13.2	62.9	25	11	US-10-934-048A-14283	Sequence 14283, A
265	13.2	62.9	25	11	US-10-934-048A-70495	Sequence 70495, A
c 266	13.2	62.9	25	13	US-11-036-317-2947	Sequence 2947, Ap
c 267	13.2	62.9	25	13	US-11-036-317-6119	Sequence 6119, Ap
c 268	13.2	62.9	25	13	US-11-036-317-6881	Sequence 6881, Ap
c 269	13.2	62.9	25	13	US-11-036-317-14000	Sequence 14000, A
c 270	13.2	62.9	25	13	US-11-036-317-28803	Sequence 28803, A
c 271	13.2	62.9	25	13	US-11-036-317-32448	Sequence 32448, A
c 272	13.2	62.9	25	13	US-11-036-317-36793	Sequence 36793, A
273	13.2	62.9	25	13	US-11-036-317-40148	Sequence 40148, A
274	13.2	62.9	25	13	US-11-036-317-47474	Sequence 47474, A
275	13.2	62.9	25	13	US-11-036-317-64174	Sequence 64174, A
276	13.2	62.9	25	13	US-11-036-317-75990	Sequence 75990, A
c 277	13.2	62.9	25	13	US-11-036-317-132225	Sequence 132225,
278	13.2	62.9	25	13	US-11-036-317-145445	Sequence 145445,
c 279	13.2	62.9	25	13	US-11-036-317-168314	Sequence 168314,
c 280	13.2	62.9	25	13	US-11-036-317-204027	Sequence 204027,
c 281	13.2	62.9	25	13	US-11-036-317-233905	Sequence 233905,
282	13.2	62.9	25	13	US-11-036-317-236892	Sequence 236892,
c 283	13.2	62.9	25	13	US-11-036-317-287110	Sequence 287110,
c 284	13.2	62.9	25	13	US-11-036-317-320329	Sequence 320329,
c 285	13.2	62.9	25	13	US-11-036-317-342525	Sequence 342525,
c 286	13.2	62.9	25	13	US-11-036-317-358005	Sequence 358005,
c 287	13.2	62.9	25	13	US-11-036-317-378732	Sequence 378732,
288	13.2	62.9	25	13	US-11-036-317-456171	Sequence 456171,
c 289	13.2	62.9	25	13	US-11-036-317-503700	Sequence 503700,
c 290	13.2	62.9	25	13	US-11-036-317-603544	Sequence 603544,
291	13.2	62.9	25	13	US-11-036-317-729107	Sequence 729107,
c 292	13.2	62.9	25	13	US-11-036-317-758798	Sequence 758798,
293	13.2	62.9	25	13	US-11-036-317-898555	Sequence 898555,
294	13.2	62.9	25	13	US-11-036-317-898556	Sequence 898556,
c 295	13.2	62.9	25	13	US-11-036-317-900139	Sequence 900139,

c 296	13.2	62.9	25	13	US-11-060-756-149068	Sequence 149068,
c 297	13.2	62.9	25	15	US-11-121-849-34183	Sequence 34183, A
c 298	13.2	62.9	25	15	US-11-121-849-34184	Sequence 34184, A
c 299	13.2	62.9	25	15	US-11-121-849-226634	Sequence 226634,
300	13.2	62.9	25	15	US-11-121-849-398932	Sequence 398932,
c 301	13.2	62.9	25	15	US-11-121-849-403091	Sequence 403091,
c 302	13.2	62.9	25	15	US-11-121-849-529012	Sequence 529012,
303	13.2	62.9	25	16	US-11-136-527-155363	Sequence 155363,
c 304	13.2	62.9	27	10	US-10-505-377-32	Sequence 32, Appl
305	13	61.9	19	14	US-11-083-784-370275	Sequence 370275,
306	13	61.9	19	14	US-11-083-784-370356	Sequence 370356,
c 307	13	61.9	19	14	US-11-083-784-389289	Sequence 389289,
c 308	13	61.9	19	14	US-11-083-784-804971	Sequence 804971,
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310	13	61.9	19	15	US-11-101-244-370356	Sequence 370356,
c 311	13	61.9	19	15	US-11-101-244-389289	Sequence 389289,
c 312	13	61.9	19	15	US-11-101-244-804971	Sequence 804971,
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314	13	61.9	21	6	US-10-263-677-30	Sequence 30, Appl
315	13	61.9	21	8	US-10-728-491-9	Sequence 9, Appli
316	13	61.9	21	10	US-10-955-218-30	Sequence 30, Appl
c 317	13	61.9	21	10	US-10-770-726-23843	Sequence 23843, A
c 318	13	61.9	21	10	US-10-770-726-23844	Sequence 23844, A
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c 321	13	61.9	22	11	US-10-310-914A-600741	Sequence 600741,
c 322	13	61.9	22	11	US-10-310-914A-1337263	Sequence 1337263,
323	13	61.9	23	11	US-10-310-914A-396820	Sequence 396820,
c 324	13	61.9	23	11	US-10-310-914A-794909	Sequence 794909,
c 325	13	61.9	23	11	US-10-310-914A-1299787	Sequence 1299787,
c 326	13	61.9	24	6	US-10-196-000-5	Sequence 5, Appli
c 327	13	61.9	24	11	US-10-310-914A-205618	Sequence 205618,
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329	13	61.9	25	8	US-10-719-956-147032	Sequence 147032,
330	13	61.9	25	8	US-10-719-956-209543	Sequence 209543,
331	13	61.9	25	8	US-10-719-956-220210	Sequence 220210,
c 332	13	61.9	25	8	US-10-719-956-224188	Sequence 224188,
333	13	61.9	25	8	US-10-719-956-437420	Sequence 437420,
334	13	61.9	25	8	US-10-719-956-437421	Sequence 437421,
c 335	13	61.9	25	8	US-10-719-956-582100	Sequence 582100,
c 336	13	61.9	25	9	US-10-719-900-228765	Sequence 228765,
c 337	13	61.9	25	9	US-10-719-900-345697	Sequence 345697,
338	13	61.9	25	9	US-10-719-900-458448	Sequence 458448,
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342	13	61.9	25	9	US-10-719-900-824273	Sequence 824273,
343	13	61.9	25	9	US-10-719-900-887533	Sequence 887533,
344	13	61.9	25	9	US-10-719-900-922787	Sequence 922787,
c 345	13	61.9	25	10	US-10-809-189-36692	Sequence 36692, A
c 346	13	61.9	25	10	US-10-956-157-279417	Sequence 279417,
347	13	61.9	25	11	US-10-932-182A-36189	Sequence 36189, A
348	13	61.9	25	11	US-10-932-182A-48938	Sequence 48938, A
349	13	61.9	25	11	US-10-933-982-77349	Sequence 77349, A
c 350	13	61.9	25	11	US-10-933-982-87286	Sequence 87286, A
c 351	13	61.9	25	11	US-10-933-982-168071	Sequence 168071,
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c 353	13	61.9	25	13	US-11-036-317-176402	Sequence 176402,
c 354	13	61.9	25	13	US-11-036-317-187789	Sequence 187789,
c 355	13	61.9	25	13	US-11-036-317-205734	Sequence 205734,
c 356	13	61.9	25	13	US-11-036-317-211671	Sequence 211671,

c 357	13	61.9	25	13	US-11-036-317-232254	Sequence 232254,
c 358	13	61.9	25	13	US-11-036-317-236671	Sequence 236671,
c 359	13	61.9	25	13	US-11-036-317-238528	Sequence 238528,
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c 361	13	61.9	25	13	US-11-036-317-253739	Sequence 253739,
c 362	13	61.9	25	13	US-11-036-317-257696	Sequence 257696,
c 363	13	61.9	25	13	US-11-036-317-289489	Sequence 289489,
c 364	13	61.9	25	13	US-11-036-317-306088	Sequence 306088,
c 365	13	61.9	25	13	US-11-036-317-309025	Sequence 309025,
c 366	13	61.9	25	13	US-11-036-317-310757	Sequence 310757,
c 367	13	61.9	25	13	US-11-036-317-349424	Sequence 349424,
c 368	13	61.9	25	13	US-11-036-317-353331	Sequence 353331,
c 369	13	61.9	25	13	US-11-036-317-376108	Sequence 376108,
c 370	13	61.9	25	13	US-11-036-317-472730	Sequence 472730,
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c 372	13	61.9	25	13	US-11-036-317-484010	Sequence 484010,
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374	13	61.9	25	13	US-11-036-317-647015	Sequence 647015,
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c 377	13	61.9	25	13	US-11-036-317-798594	Sequence 798594,
c 378	13	61.9	25	13	US-11-036-317-808728	Sequence 808728,
c 379	13	61.9	25	13	US-11-036-317-909832	Sequence 909832,
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c 381	13	61.9	25	13	US-11-036-317-938302	Sequence 938302,
c 382	13	61.9	25	13	US-11-036-317-939990	Sequence 939990,
c 383	13	61.9	25	13	US-11-036-317-940862	Sequence 940862,
c 384	13	61.9	25	13	US-11-036-317-965436	Sequence 965436,
c 385	13	61.9	25	13	US-11-036-317-978330	Sequence 978330,
c 386	13	61.9	25	13	US-11-060-756-144892	Sequence 144892,
c 387	13	61.9	25	13	US-11-060-756-183368	Sequence 183368,
c 388	13	61.9	25	13	US-11-060-756-260872	Sequence 260872,
c 389	13	61.9	25	13	US-11-060-756-262778	Sequence 262778,
c 390	13	61.9	25	15	US-11-121-849-25500	Sequence 25500, A
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c 394	13	61.9	25	15	US-11-121-849-260882	Sequence 260882,
395	13	61.9	25	15	US-11-121-849-273797	Sequence 273797,
396	13	61.9	25	15	US-11-121-849-274356	Sequence 274356,
397	13	61.9	25	15	US-11-121-849-401451	Sequence 401451,
c 398	13	61.9	25	15	US-11-121-849-429565	Sequence 429565,
c 399	13	61.9	25	15	US-11-121-849-541935	Sequence 541935,
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c 401	13	61.9	25	16	US-11-136-527-265238	Sequence 265238,
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c 403	13	61.9	25	16	US-11-136-527-271555	Sequence 271555,
c 404	13	61.9	25	16	US-11-136-527-271556	Sequence 271556,
c 405	13	61.9	25	16	US-11-136-527-271570	Sequence 271570,
c 406	13	61.9	25	16	US-11-136-527-271574	Sequence 271574,
407	13	61.9	25	16	US-11-136-527-304087	Sequence 304087,
c 408	13	61.9	25	16	US-11-136-527-322780	Sequence 322780,
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c 410	13	61.9	26	11	US-10-310-914A-961868	Sequence 961868,
c 411	13	61.9	27	7	US-10-335-592-32	Sequence 32, Appl
c 412	13	61.9	27	7	US-10-291-058A-1	Sequence 1, Appli
c 413	13	61.9	27	11	US-10-310-914A-982218	Sequence 982218,
c 414	13	61.9	29	6	US-10-012-070A-20	Sequence 20, Appl
c 415	13	61.9	29	6	US-10-012-013-13	Sequence 13, Appl
c 416	12.8	61.0	18	11	US-10-310-914A-854209	Sequence 854209,
417	12.8	61.0	18	11	US-10-310-914A-1158461	Sequence 1158461,

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422	12.8	61.0	19	11	US-10-310-914A-970995	Sequence 970995,
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c 424	12.8	61.0	19	14	US-11-083-784-754075	Sequence 754075,
c 425	12.8	61.0	19	14	US-11-083-784-754173	Sequence 754173,
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c 427	12.8	61.0	19	14	US-11-083-784-1303846	Sequence 1303846,
c 428	12.8	61.0	19	14	US-11-083-784-1312243	Sequence 1312243,
429	12.8	61.0	19	15	US-11-101-244-575994	Sequence 575994,
c 430	12.8	61.0	19	15	US-11-101-244-754075	Sequence 754075,
c 431	12.8	61.0	19	15	US-11-101-244-754173	Sequence 754173,
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c 433	12.8	61.0	19	15	US-11-101-244-1303846	Sequence 1303846,
c 434	12.8	61.0	19	15	US-11-101-244-1312243	Sequence 1312243,
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c 438	12.8	61.0	20	11	US-10-310-914A-864475	Sequence 864475,
c 439	12.8	61.0	20	11	US-10-310-914A-864499	Sequence 864499,
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c 441	12.8	61.0	22	11	US-10-310-914A-338061	Sequence 338061,
c 442	12.8	61.0	22	11	US-10-310-914A-704102	Sequence 704102,
c 443	12.8	61.0	22	11	US-10-310-914A-1326080	Sequence 1326080,
c 444	12.8	61.0	23	11	US-10-310-914A-338060	Sequence 338060,
445	12.8	61.0	23	11	US-10-310-914A-679233	Sequence 679233,
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c 447	12.8	61.0	24	11	US-10-310-914A-854233	Sequence 854233,
c 448	12.8	61.0	24	11	US-10-310-914A-1053965	Sequence 1053965,
449	12.8	61.0	25	8	US-10-719-956-169068	Sequence 169068,
c 450	12.8	61.0	25	8	US-10-719-956-170975	Sequence 170975,
c 451	12.8	61.0	25	8	US-10-719-956-354362	Sequence 354362,
c 452	12.8	61.0	25	8	US-10-719-956-380980	Sequence 380980,
453	12.8	61.0	25	8	US-10-719-956-443104	Sequence 443104,
454	12.8	61.0	25	8	US-10-719-956-591120	Sequence 591120,
455	12.8	61.0	25	8	US-10-719-956-591121	Sequence 591121,
456	12.8	61.0	25	8	US-10-719-956-677433	Sequence 677433,
c 457	12.8	61.0	25	9	US-10-719-900-13242	Sequence 13242, A
c 458	12.8	61.0	25	9	US-10-719-900-249493	Sequence 249493,
459	12.8	61.0	25	9	US-10-719-900-263214	Sequence 263214,
c 460	12.8	61.0	25	9	US-10-719-900-394336	Sequence 394336,
c 461	12.8	61.0	25	9	US-10-719-900-496494	Sequence 496494,
c 462	12.8	61.0	25	9	US-10-719-900-599529	Sequence 599529,
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464	12.8	61.0	25	9	US-10-719-900-657133	Sequence 657133,
c 465	12.8	61.0	25	9	US-10-719-900-686056	Sequence 686056,
466	12.8	61.0	25	9	US-10-719-900-717784	Sequence 717784,
467	12.8	61.0	25	9	US-10-719-900-925964	Sequence 925964,
468	12.8	61.0	25	10	US-10-809-189-125612	Sequence 125612,
c 469	12.8	61.0	25	10	US-10-956-157-152637	Sequence 152637,
c 470	12.8	61.0	25	10	US-10-956-157-293008	Sequence 293008,
471	12.8	61.0	25	10	US-10-750-185-6263	Sequence 6263, Ap
472	12.8	61.0	25	10	US-10-750-623-6263	Sequence 6263, Ap
c 473	12.8	61.0	25	11	US-10-310-914A-1326061	Sequence 1326061,
c 474	12.8	61.0	25	11	US-10-932-182A-68255	Sequence 68255, A
c 475	12.8	61.0	25	11	US-10-933-982-2344	Sequence 2344, Ap
c 476	12.8	61.0	25	11	US-10-933-982-3190	Sequence 3190, Ap
c 477	12.8	61.0	25	11	US-10-934-048A-108835	Sequence 108835,
c 478	12.8	61.0	25	13	US-11-036-317-87760	Sequence 87760, A

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c 486	12.8	61.0	25	13	US-11-036-317-426425	Sequence 426425,
487	12.8	61.0	25	13	US-11-036-317-432768	Sequence 432768,
488	12.8	61.0	25	13	US-11-036-317-470732	Sequence 470732,
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c 499	12.8	61.0	25	13	US-11-036-317-841656	Sequence 841656,
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e 502	12.8	61.0	25	13	US-11-036-317-952526	Sequence 952526,
c 503	12.8	61.0	25	13	US-11-060-756-168358	Sequence 168358,
c 504	12.8	61.0	25	15	US-11-121-849-109560	Sequence 109560,
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c 506	12.8	61.0	25	15	US-11-121-849-166621	Sequence 166621,
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c 509	12.8	61.0	25	15	US-11-121-849-640822	Sequence 640822,
c 510	12.8	61.0	25	16	US-11-136-527-238983	Sequence 238983,
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c 515	12.8	61.0	30	10	US-10-850-359-647	Sequence 647, App
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c 526	12.6	60.0	21	11	US-10-310-914A-114003	Sequence 114003,
c 527	12.6	60.0	21	11	US-10-310-914A-497936	Sequence 497936,
c 528	12.6	60.0	21	11	US-10-310-914A-607931	Sequence 607931,
c 529	12.6	60.0	21	11	US-10-310-914A-615856	Sequence 615856,
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c 534	12.6	60.0	22	11	US-10-310-914A-964401	Sequence 964401,
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c 539	12.6	60.0	23	11	US-10-310-914A-832435	Sequence 832435,

c 540	12.6	60.0	23	11	US-10-310-914A-1129117	Sequence 1129117,
c 541	12.6	60.0	23	11	US-10-310-914A-1337948	Sequence 1337948,
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c 543	12.6	60.0	24	3	US-09-940-185-1397	Sequence 1397, Ap
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c 547	12.6	60.0	25	3	US-09-866-108-3431	Sequence 3431, Ap
c 548	12.6	60.0	25	3	US-09-866-108-3432	Sequence 3432, Ap
c 549	12.6	60.0	25	3	US-09-866-108-3433	Sequence 3433, Ap
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c 551	12.6	60.0	25	3	US-09-866-108-3435	Sequence 3435, Ap
c 552	12.6	60.0	25	3	US-09-866-108-3436	Sequence 3436, Ap
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c 556	12.6	60.0	25	6	US-10-060-756A-2212	Sequence 2212, Ap
c 557	12.6	60.0	25	6	US-10-060-756A-2213	Sequence 2213, Ap
c 558	12.6	60.0	25	6	US-10-060-756A-2214	Sequence 2214, Ap
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c 564	12.6	60.0	25	8	US-10-723-361-3432	Sequence 3432, Ap
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c 567	12.6	60.0	25	8	US-10-723-361-3435	Sequence 3435, Ap
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c 635	12.6	60.0	25	10	US-10-890-776A-2211	Sequence 2211, Ap
c 636	12.6	60.0	25	10	US-10-890-776A-2212	Sequence 2212, Ap
c 637	12.6	60.0	25	10	US-10-890-776A-2213	Sequence 2213, Ap
c 638	12.6	60.0	25	10	US-10-890-776A-2214	Sequence 2214, Ap
c 639	12.6	60.0	25	10	US-10-890-776A-2215	Sequence 2215, Ap
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c 687	12.6	60.0	25	13	US-11-036-317-895101	Sequence 895101,
c 688	12.6	60.0	25	13	US-11-036-317-905020	Sequence 905020,
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c 692	12.6	60.0	25	13	US-11-060-756-122366	Sequence 122366,
c 693	12.6	60.0	25	13	US-11-060-756-140071	Sequence 140071,
c 694	12.6	60.0	25	13	US-11-060-756-152867	Sequence 152867,
c 695	12.6	60.0	25	13	US-11-060-756-190021	Sequence 190021,
c 696	12.6	60.0	25	13	US-11-060-756-215265	Sequence 215265,
c 697	12.6	60.0	25	13	US-11-060-756-261209	Sequence 261209,
c 698	12.6	60.0	25	13	US-11-060-756-261210	Sequence 261210,
c 699	12.6	60.0	25	13	US-11-060-756-270768	Sequence 270768,
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c 701	12.6	60.0	25	15	US-11-121-849-60212	Sequence 60212, A
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c 703	12.6	60.0	25	15	US-11-121-849-95869	Sequence 95869, A
c 704	12.6	60.0	25	15	US-11-121-849-118140	Sequence 118140,
c 705	12.6	60.0	25	15	US-11-121-849-119016	Sequence 119016,
706	12.6	60.0	25	15	US-11-121-849-162832	Sequence 162832,
707	12.6	60.0	25	15	US-11-121-849-223933	Sequence 223933,
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c 709	12.6	60.0	25	15	US-11-121-849-269031	Sequence 269031,
c 710	12.6	60.0	25	15	US-11-121-849-289956	Sequence 289956,
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c 712	12.6	60.0	25	15	US-11-121-849-338643	Sequence 338643,
c 713	12.6	60.0	25	15	US-11-121-849-350662	Sequence 350662,
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724	12.6	60.0	25	16	US-11-136-527-332411	Sequence 332411,
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c 727	12.6	60.0	26	11	US-10-310-914A-813928	Sequence 813928,
728	12.6	60.0	27	9	US-10-744-796-18	Sequence 18, Appl
729	12.6	60.0	27	9	US-10-744-796-22	Sequence 22, Appl
730	12.6	60.0	27	11	US-10-310-914A-341182	Sequence 341182,
731	12.6	60.0	30	10	US-10-850-359-220	Sequence 220, App
732	12.6	60.0	30	15	US-11-046-644-66	Sequence 66, Appl
733	12.6	60.0	30	15	US-11-046-456-66	Sequence 66, Appl
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c 735	12.4	59.0	17	3	US-09-864-785-2983	Sequence 2983, Ap
c 736	12.4	59.0	17	3	US-09-864-785-2984	Sequence 2984, Ap
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743	12.4	59.0	19	11	US-10-310-914A-641632	Sequence 641632,
c 744	12.4	59.0	19	11	US-10-310-914A-752685	Sequence 752685,
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c 780	12.4	59.0	19	15	US-11-101-244-1564552	Sequence 1564552,
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c 782	12.4	59.0	19	15	US-11-110-274-592	Sequence 592, App
c 783	12.4	59.0	19	15	US-11-110-274-593	Sequence 593, App

c 784	12.4	59.0	19	15	US-11-110-274-594	Sequence 594, App
c 785	12.4	59.0	20	11	US-10-310-914A-114400	Sequence 114400,
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790	12.4	59.0	21	9	US-10-751-736-18974	Sequence 18974, A
c 791	12.4	59.0	21	9	US-10-751-736-36493	Sequence 36493, A
c 792	12.4	59.0	21	9	US-10-751-736-36494	Sequence 36494, A
c 793	12.4	59.0	21	9	US-10-751-736-36496	Sequence 36496, A
c 794	12.4	59.0	21	9	US-10-751-736-36497	Sequence 36497, A
c 795	12.4	59.0	21	9	US-10-751-736-36682	Sequence 36682, A
c 796	12.4	59.0	21	11	US-10-310-914A-370406	Sequence 370406,
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c 801	12.4	59.0	21	15	US-11-110-274-259	Sequence 259, App
c 802	12.4	59.0	21	15	US-11-110-274-260	Sequence 260, App
c 803	12.4	59.0	21	15	US-11-110-274-261	Sequence 261, App
c 804	12.4	59.0	22	11	US-10-310-914A-239457	Sequence 239457,
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c 806	12.4	59.0	22	11	US-10-310-914A-678768	Sequence 678768,
c 807	12.4	59.0	22	11	US-10-310-914A-882175	Sequence 882175,
c 808	12.4	59.0	23	11	US-10-310-914A-149631	Sequence 149631,
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c 811	12.4	59.0	23	11	US-10-310-914A-612882	Sequence 612882,
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c 915	12.2	58.1	18	11	US-10-310-914A-384232	Sequence 384232,
c 916	12.2	58.1	18	11	US-10-310-914A-682396	Sequence 682396,
c 917	12.2	58.1	18	11	US-10-310-914A-702745	Sequence 702745,
c 918	12.2	58.1	18	11	US-10-310-914A-825005	Sequence 825005,
c 919	12.2	58.1	18	11	US-10-310-914A-971576	Sequence 971576,
c 920	12.2	58.1	18	11	US-10-310-914A-1104924	Sequence 1104924,
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922	12.2	58.1	19	10	US-10-881-118-70	Sequence 70, Appl
c 923	12.2	58.1	19	10	US-10-881-118-233	Sequence 233, App
c 924	12.2	58.1	19	11	US-10-310-914A-42340	Sequence 42340, A
c 925	12.2	58.1	19	11	US-10-310-914A-104288	Sequence 104288,
926	12.2	58.1	19	11	US-10-310-914A-194150	Sequence 194150,
927	12.2	58.1	19	11	US-10-310-914A-493594	Sequence 493594,
c 928	12.2	58.1	19	11	US-10-310-914A-521535	Sequence 521535,
c 929	12.2	58.1	19	11	US-10-310-914A-550752	Sequence 550752,
c 930	12.2	58.1	19	11	US-10-310-914A-983239	Sequence 983239,
931	12.2	58.1	19	11	US-10-310-914A-1036711	Sequence 1036711,
932	12.2	58.1	19	14	US-11-083-784-189129	Sequence 189129,
c 933	12.2	58.1	19	14	US-11-083-784-203626	Sequence 203626,
c 934	12.2	58.1	19	14	US-11-083-784-203869	Sequence 203869,
935	12.2	58.1	19	14	US-11-083-784-229580	Sequence 229580,
c 936	12.2	58.1	19	14	US-11-083-784-297498	Sequence 297498,
937	12.2	58.1	19	14	US-11-083-784-457331	Sequence 457331,
938	12.2	58.1	19	14	US-11-083-784-495280	Sequence 495280,
939	12.2	58.1	19	14	US-11-083-784-495282	Sequence 495282,
940	12.2	58.1	19	14	US-11-083-784-582014	Sequence 582014,
941	12.2	58.1	19	14	US-11-083-784-886662	Sequence 886662,
942	12.2	58.1	19	14	US-11-083-784-910611	Sequence 910611,
943	12.2	58.1	19	14	US-11-083-784-1046346	Sequence 1046346,
944	12.2	58.1	19	14	US-11-083-784-1055260	Sequence 1055260,
945	12.2	58.1	19	14	US-11-083-784-1058955	Sequence 1058955,
946	12.2	58.1	19	14	US-11-083-784-1260551	Sequence 1260551,
947	12.2	58.1	19	14	US-11-083-784-1325532	Sequence 1325532,
948	12.2	58.1	19	14	US-11-083-784-1494500	Sequence 1494500,
949	12.2	58.1	19	15	US-11-101-244-189129	Sequence 189129,
c 950	12.2	58.1	19	15	US-11-101-244-203626	Sequence 203626,
c 951	12.2	58.1	19	15	US-11-101-244-203869	Sequence 203869,
952	12.2	58.1	19	15	US-11-101-244-229580	Sequence 229580,
c 953	12.2	58.1	19	15	US-11-101-244-297498	Sequence 297498,
954	12.2	58.1	19	15	US-11-101-244-457331	Sequence 457331,
955	12.2	58.1	19	15	US-11-101-244-495280	Sequence 495280,
956	12.2	58.1	19	15	US-11-101-244-495282	Sequence 495282,
957	12.2	58.1	19	15	US-11-101-244-582014	Sequence 582014,
958	12.2	58.1	19	15	US-11-101-244-886662	Sequence 886662,
959	12.2	58.1	19	15	US-11-101-244-910611	Sequence 910611,
960	12.2	58.1	19	15	US-11-101-244-1046346	Sequence 1046346,
961	12.2	58.1	19	15	US-11-101-244-1055260	Sequence 1055260,
962	12.2	58.1	19	15	US-11-101-244-1058955	Sequence 1058955,
963	12.2	58.1	19	15	US-11-101-244-1260551	Sequence 1260551,
964	12.2	58.1	19	15	US-11-101-244-1325532	Sequence 1325532,
965	12.2	58.1	19	15	US-11-101-244-1494500	Sequence 1494500,
966	12.2	58.1	19	15	US-11-069-908-893	Sequence 893, App

967	12.2	58.1	19	15	US-11-069-908-3259	Sequence 3259, Ap
c 968	12.2	58.1	20	7	US-10-024-369-27	Sequence 27, Appl
969	12.2	58.1	20	9	US-10-832-777-163	Sequence 163, App
970	12.2	58.1	20	9	US-10-832-622B-163	Sequence 163, App
971	12.2	58.1	20	11	US-10-310-914A-91050	Sequence 91050, A
c 972	12.2	58.1	20	11	US-10-310-914A-398281	Sequence 398281,
c 973	12.2	58.1	20	11	US-10-310-914A-967760	Sequence 967760,
974	12.2	58.1	20	11	US-10-310-914A-1017834	Sequence 1017834,
c 975	12.2	58.1	20	11	US-10-310-914A-1137640	Sequence 1137640,
976	12.2	58.1	20	11	US-10-831-286A-48394	Sequence 48394, A
977	12.2	58.1	21	11	US-10-310-914A-55692	Sequence 55692, A
978	12.2	58.1	21	11	US-10-310-914A-430479	Sequence 430479,
c 979	12.2	58.1	21	11	US-10-310-914A-703408	Sequence 703408,
980	12.2	58.1	21	11	US-10-310-914A-777414	Sequence 777414,
981	12.2	58.1	21	11	US-10-310-914A-945930	Sequence 945930,
c 982	12.2	58.1	21	11	US-10-310-914A-997957	Sequence 997957,
983	12.2	58.1	21	11	US-10-310-914A-1377135	Sequence 1377135,
984	12.2	58.1	22	8	US-10-617-038-117	Sequence 117, App
985	12.2	58.1	22	11	US-10-310-914A-175302	Sequence 175302,
c 986	12.2	58.1	22	11	US-10-310-914A-189355	Sequence 189355,
c 987	12.2	58.1	22	11	US-10-310-914A-246066	Sequence 246066,
988	12.2	58.1	22	11	US-10-310-914A-302278	Sequence 302278,
989	12.2	58.1	22	11	US-10-310-914A-519263	Sequence 519263,
990	12.2	58.1	22	11	US-10-310-914A-674581	Sequence 674581,
991	12.2	58.1	22	11	US-10-310-914A-753139	Sequence 753139,
992	12.2	58.1	22	11	US-10-310-914A-783011	Sequence 783011,
c 993	12.2	58.1	22	11	US-10-310-914A-896854	Sequence 896854,
c 994	12.2	58.1	22	11	US-10-310-914A-1028724	Sequence 1028724,
c 995	12.2	58.1	22	11	US-10-310-914A-1098437	Sequence 1098437,
c 996	12.2	58.1	22	11	US-10-310-914A-1098510	Sequence 1098510,
c 997	12.2	58.1	22	11	US-10-310-914A-1137703	Sequence 1137703,
998	12.2	58.1	22	11	US-10-310-914A-1289146	Sequence 1289146,
c 999	12.2	58.1	22	11	US-10-310-914A-1341263	Sequence 1341263,
c1000	12.2	58.1	23	11	US-10-310-914A-42341	Sequence 42341, A

#### ALIGNMENTS

##### RESULT 1

US-10-728-491-1

; Sequence 1, Application US/10728491

; Publication No. US20040142896A1

; GENERAL INFORMATION:

; APPLICANT: Wang, Jui, H

; TITLE OF INVENTION: High Efficacy Antisense RI alpha PKA Poly-DNP Oligoribonucleoti

; FILE REFERENCE: 11520.0338

; CURRENT APPLICATION NUMBER: US/10/728,491

; CURRENT FILING DATE: 2003-12-05

; PRIOR APPLICATION NUMBER: US 60/431,694

; PRIOR FILING DATE: 2002-12-05

; NUMBER OF SEQ ID NOS: 27

; SEQ ID NO 1

; LENGTH: 21

; TYPE: RNA

; ORGANISM: artificial sequence

; FEATURE:

; OTHER INFORMATION: Antisense oligoribonucleotide poly-DNP-RNA-21

US-10-728-491-1

Query Match 100.0%; Score 21; DB 8; Length 21;

Best Local Similarity 100.0%; Pred. No. 6.4;  
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGCUGCGUGCCUCCUCACUGG 21  
|||||||  
Db 1 GGCUGCGUGCCUCCUCACUGG 21

RESULT 2

US-10-728-491-3

; Sequence 3, Application US/10728491  
; Publication No. US20040142896A1  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Jui, H  
; TITLE OF INVENTION: High Efficacy Antisense RI alpha PKA Poly-DNP Oligoribonucleoti  
; FILE REFERENCE: 11520.0338  
; CURRENT APPLICATION NUMBER: US/10/728,491  
; CURRENT FILING DATE: 2003-12-05  
; PRIOR APPLICATION NUMBER: US 60/431,694  
; PRIOR FILING DATE: 2002-12-05  
; NUMBER OF SEQ ID NOS: 27  
; SEQ ID NO 3  
; LENGTH: 21  
; TYPE: DNA  
; ORGANISM: artificial sequence  
; FEATURE:  
; OTHER INFORMATION: Mixed backbone (DNA/RNA)oligonucleotide - MBO-21  
US-10-728-491-3

Query Match 100.0%; Score 21; DB 8; Length 21;  
Best Local Similarity 85.7%; Pred. No. 6.4;  
Matches 18; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGCUGCGUGCCUCCUCACUGG 21  
|||||||:||||:||||  
Db 1 GGCUGCGTGCCTCCTCACUGG 21

RESULT 3

US-10-801-118-7

; Sequence 7, Application US/10801118  
; Publication No. US20040248841A1  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Jui H  
; APPLICANT: Liao, Hongtao  
; APPLICANT: Shen, Long  
; APPLICANT: Chen, Xiaolan  
; TITLE OF INVENTION: POLY-DNA-siRNA  
; FILE REFERENCE: DNPP-2007US0  
; CURRENT APPLICATION NUMBER: US/10/801,118  
; CURRENT FILING DATE: 2004-03-15  
; NUMBER OF SEQ ID NOS: 8  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 7  
; LENGTH: 21  
; TYPE: DNA  
; ORGANISM: Human  
US-10-801-118-7

Query Match 100.0%; Score 21; DB 9; Length 21;  
Best Local Similarity 100.0%; Pred. No. 6.4;



Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result	Score	% Query Match	Length	DB	ID	Description
1	17	81.0	18	2	AR080883	AR080883 Sequence
2	17	81.0	18	2	AR080886	AR080886 Sequence
3	17	81.0	18	2	AR080888	AR080888 Sequence
4	17	81.0	18	2	BD107649	BD107649 Modified
5	17	81.0	18	2	BD107652	BD107652 Modified
6	17	81.0	18	2	BD107654	BD107654 Modified
7	17	81.0	18	2	BD192474	BD192474 Compositi
8	17	81.0	18	2	BD192475	BD192475 Compositi
9	17	81.0	18	2	BD192476	BD192476 Compositi
10	17	81.0	18	2	AR208385	AR208385 Sequence
11	17	81.0	18	2	I49062	I49062 Sequence 2
12	17	81.0	18	2	I76423	I76423 Sequence 2
13	17	81.0	18	2	AR430158	AR430158 Sequence
14	17	81.0	18	2	AR577323	AR577323 Sequence
15	17	81.0	18	2	AR653982	AR653982 Sequence
16	17	81.0	18	2	AR653983	AR653983 Sequence
17	17	81.0	18	2	AR653984	AR653984 Sequence
18	17	81.0	18	2	AR680528	AR680528 Sequence
19	17	81.0	18	2	AR714221	AR714221 Sequence
20	17	81.0	18	2	AX030046	AX030046 Sequence
21	17	81.0	18	2	AX081371	AX081371 Sequence
22	17	81.0	18	2	AX283201	AX283201 Sequence
23	17	81.0	18	2	AX283269	AX283269 Sequence
24	17	81.0	20	2	AR170389	AR170389 Sequence
c 25	17	81.0	20	2	AR170392	AR170392 Sequence
26	17	81.0	23	2	AR208390	AR208390 Sequence
27	17	81.0	23	2	AR208394	AR208394 Sequence
28	17	81.0	24	2	AR208388	AR208388 Sequence
29	17	81.0	24	2	AR208391	AR208391 Sequence
30	17	81.0	25	2	AR208392	AR208392 Sequence
31	17	81.0	25	2	AR208395	AR208395 Sequence
32	17	81.0	26	2	AR208393	AR208393 Sequence
33	15.4	73.3	25	2	E13481	E13481 PCR primer
c 34	14.8	70.5	20	2	AR241029	AR241029 Sequence
c 35	14.4	68.6	22	2	BD187240	BD187240 Novel lig
36	14.4	68.6	23	2	AR208389	AR208389 Sequence
37	13.8	65.7	18	2	AR080884	AR080884 Sequence
38	13.8	65.7	18	2	AR080887	AR080887 Sequence
39	13.8	65.7	18	2	AR080889	AR080889 Sequence
40	13.8	65.7	18	2	BD107650	BD107650 Modified
41	13.8	65.7	18	2	BD107653	BD107653 Modified
42	13.8	65.7	18	2	BD107655	BD107655 Modified
c 43	13.6	64.8	23	2	CQ760734	CQ760734 Sequence
c 44	13.6	64.8	23	2	CQ760738	CQ760738 Sequence
c 45	13.6	64.8	23	2	AR590182	AR590182 Sequence
c 46	13.6	64.8	23	2	AR590186	AR590186 Sequence
c 47	13.6	64.8	23	2	AX451301	AX451301 Sequence
c 48	13.6	64.8	23	2	AX451305	AX451305 Sequence
49	13.2	62.9	25	2	AX196867	AX196867 Sequence
50	13.2	62.9	30	2	E59883	E59883 Method for
51	13.2	62.9	30	2	AR340228	AR340228 Sequence
52	13.2	62.9	30	2	AR690557	AR690557 Sequence

	53	13	61.9	21	2	AX278162	AX278162 Sequence
c	54	13	61.9	24	2	AR633132	AR633132 Sequence
c	55	13	61.9	24	2	AX199069	AX199069 Sequence
	56	13	61.9	26	2	BD192528	BD192528 Compositi
	57	13	61.9	26	2	I95933	I95933 Sequence 8
	58	13	61.9	26	2	I95958	I95958 Sequence 33
c	59	13	61.9	26	2	I95984	I95984 Sequence 59
c	60	13	61.9	26	2	I96009	I96009 Sequence 84
	61	13	61.9	26	2	AR654036	AR654036 Sequence
c	62	13	61.9	29	2	AR643951	AR643951 Sequence
c	63	13	61.9	29	2	AX044065	AX044065 Sequence
c	64	13	61.9	29	2	AX044113	AX044113 Sequence
c	65	12.6	60.0	20	2	AX148851	AX148851 Sequence
	66	12.6	60.0	21	2	AR213926	AR213926 Sequence
c	67	12.6	60.0	21	2	AR343624	AR343624 Sequence
	68	12.6	60.0	22	2	AR317442	AR317442 Sequence
	69	12.6	60.0	23	2	BD176809	BD176809 Method of
c	70	12.6	60.0	24	2	AX444942	AX444942 Sequence
c	71	12.6	60.0	25	2	CQ618690	CQ618690 Sequence
c	72	12.6	60.0	25	2	CQ618691	CQ618691 Sequence
c	73	12.6	60.0	25	2	CQ618692	CQ618692 Sequence
c	74	12.6	60.0	25	2	CQ618693	CQ618693 Sequence
c	75	12.6	60.0	25	2	CQ618694	CQ618694 Sequence
c	76	12.6	60.0	25	2	CQ618695	CQ618695 Sequence
c	77	12.6	60.0	25	2	CQ618696	CQ618696 Sequence
c	78	12.6	60.0	25	2	AR459753	AR459753 Sequence
c	79	12.6	60.0	25	2	AR459754	AR459754 Sequence
c	80	12.6	60.0	25	2	AR459755	AR459755 Sequence
c	81	12.6	60.0	25	2	AR459756	AR459756 Sequence
c	82	12.6	60.0	25	2	AR459757	AR459757 Sequence
c	83	12.6	60.0	25	2	AR459758	AR459758 Sequence
c	84	12.6	60.0	25	2	AR459759	AR459759 Sequence
c	85	12.6	60.0	25	2	AX500902	AX500902 Sequence
c	86	12.6	60.0	25	2	AX500903	AX500903 Sequence
c	87	12.6	60.0	25	2	AX500904	AX500904 Sequence
c	88	12.6	60.0	25	2	AX500905	AX500905 Sequence
c	89	12.6	60.0	25	2	AX500906	AX500906 Sequence
c	90	12.6	60.0	25	2	AX500907	AX500907 Sequence
c	91	12.6	60.0	25	2	AX500908	AX500908 Sequence
	92	12.6	60.0	25	2	AX609111	AX609111 Sequence
c	93	12.6	60.0	25	2	AX614250	AX614250 Sequence
c	94	12.6	60.0	26	2	BD176810	BD176810 Method of
	95	12.6	60.0	27	2	CQ754343	CQ754343 Sequence
	96	12.6	60.0	27	2	CQ754347	CQ754347 Sequence
	97	12.6	60.0	27	2	CQ754473	CQ754473 Sequence
	98	12.6	60.0	27	2	CQ754477	CQ754477 Sequence
	99	12.6	60.0	27	2	CS121939	CS121939 Sequence
	100	12.6	60.0	27	2	CS121943	CS121943 Sequence
c	101	12.6	60.0	27	2	AR191640	AR191640 Sequence
c	102	12.4	59.0	16	2	CQ797974	CQ797974 Sequence
c	103	12.4	59.0	21	2	CS227156	CS227156 Sequence
c	104	12.4	59.0	21	2	CS227157	CS227157 Sequence
c	105	12.4	59.0	21	2	CS227158	CS227158 Sequence
c	106	12.4	59.0	21	2	CS227159	CS227159 Sequence
	107	12.4	59.0	21	2	AX663764	AX663764 Sequence
	108	12.4	59.0	24	2	AX446380	AX446380 Sequence
c	109	12.4	59.0	28	2	AX016306	AX016306 Sequence
	110	12.2	58.1	19	2	BD181105	BD181105 Human DNA
	111	12.2	58.1	19	2	AR217672	AR217672 Sequence
	112	12.2	58.1	19	2	AR255696	AR255696 Sequence
	113	12.2	58.1	19	2	AR382030	AR382030 Sequence

114	12.2	58.1	19	2	AR399518	AR399518 Sequence
c 115	12.2	58.1	20	2	A79731	A79731 Sequence 2
116	12.2	58.1	20	2	AR107572	AR107572 Sequence
117	12.2	58.1	20	2	AR107573	AR107573 Sequence
118	12.2	58.1	21	2	BD230466	BD230466 Total gen
119	12.2	58.1	25	2	CQ865525	CQ865525 Sequence
c 120	12.2	58.1	25	2	AR216225	AR216225 Sequence
c 121	12.2	58.1	25	2	AR633755	AR633755 Sequence
122	12.2	58.1	26	2	CS037078	CS037078 Sequence
c 123	12.2	58.1	29	2	A79734	A79734 Sequence 5
124	12.2	58.1	29	2	AR125678	AR125678 Sequence
125	12.2	58.1	29	2	I47090	I47090 Sequence 20
126	12.2	58.1	29	2	AR562547	AR562547 Sequence
c 127	12.2	58.1	29	2	AR646091	AR646091 Sequence
c 128	12.2	58.1	29	2	AX184030	AX184030 Sequence
129	12	57.1	20	2	BD083497	BD083497 Reagents
c 130	12	57.1	20	2	BD228525	BD228525 IL-17 hom
c 131	12	57.1	20	2	AR359750	AR359750 Sequence
132	12	57.1	20	2	AR403893	AR403893 Sequence
133	12	57.1	20	2	AR437733	AR437733 Sequence
c 134	12	57.1	20	2	AR691654	AR691654 Sequence
c 135	12	57.1	20	2	AR705736	AR705736 Sequence
c 136	12	57.1	20	2	AR758269	AR758269 Sequence
c 137	12	57.1	20	2	AX148020	AX148020 Sequence
138	12	57.1	20	2	AX377038	AX377038 Sequence
c 139	12	57.1	21	2	A75767	A75767 Sequence 36
c 140	12	57.1	21	2	AR085103	AR085103 Sequence
141	12	57.1	21	2	AX103373	AX103373 Sequence
c 142	12	57.1	22	2	AX926410	AX926410 Sequence
c 143	12	57.1	22	2	DD177721	DD177721 New tumou
c 144	12	57.1	22	2	AX794329	AX794329 Sequence
c 145	12	57.1	22	2	AX800098	AX800098 Sequence
146	12	57.1	24	2	AR174141	AR174141 Sequence
147	12	57.1	24	2	AR174158	AR174158 Sequence
c 148	12	57.1	25	2	A75776	A75776 Sequence 45
149	12	57.1	25	2	AR061127	AR061127 Sequence
c 150	12	57.1	25	2	AR085112	AR085112 Sequence
151	12	57.1	25	2	AR230378	AR230378 Sequence
152	12	57.1	25	2	AR310073	AR310073 Sequence
153	12	57.1	25	2	AR350485	AR350485 Sequence
154	12	57.1	25	2	AR494219	AR494219 Sequence
155	12	57.1	25	2	AX784324	AX784324 Sequence
156	12	57.1	25	2	AX784325	AX784325 Sequence
157	12	57.1	25	2	AX784326	AX784326 Sequence
158	12	57.1	25	2	AX784327	AX784327 Sequence
159	12	57.1	25	2	AX784328	AX784328 Sequence
160	12	57.1	25	2	AX784329	AX784329 Sequence
c 161	12	57.1	27	2	AR039526	AR039526 Sequence
c 162	12	57.1	30	2	AR073283	AR073283 Sequence
c 163	12	57.1	30	2	CS080293	CS080293 Sequence
164	12	57.1	30	2	CS080294	CS080294 Sequence
c 165	12	57.1	30	2	AR637329	AR637329 Sequence
166	12	57.1	30	2	AR637330	AR637330 Sequence
c 167	12	57.1	30	2	AR699696	AR699696 Sequence
168	12	57.1	30	2	AR699697	AR699697 Sequence
169	12	57.1	30	2	AX611235	AX611235 Sequence
c 170	11.8	56.2	16	2	CQ858613	CQ858613 Sequence
c 171	11.8	56.2	19	2	A83994	A83994 Sequence 15
c 172	11.8	56.2	19	2	BD191448	BD191448 Novel pri
c 173	11.8	56.2	19	2	AR242821	AR242821 Sequence
174	11.8	56.2	19	2	AX040327	AX040327 Sequence

c 175	11.8	56.2	20	2	A10409	A10409 Oligonucleo
c 176	11.8	56.2	20	2	A83988	A83988 Sequence 9
c 177	11.8	56.2	20	2	A83998	A83998 Sequence 19
c 178	11.8	56.2	20	2	BD191442	BD191442 Novel pri
c 179	11.8	56.2	20	2	BD191452	BD191452 Novel pri
c 180	11.8	56.2	20	2	BD251981	BD251981 Bone sial
c 181	11.8	56.2	20	2	AR242815	AR242815 Sequence
c 182	11.8	56.2	20	2	AR242825	AR242825 Sequence
183	11.8	56.2	20	2	AR559472	AR559472 Sequence
184	11.8	56.2	21	2	CS237068	CS237068 Sequence
c 185	11.8	56.2	21	2	CS237069	CS237069 Sequence
186	11.8	56.2	21	2	AR298073	AR298073 Sequence
c 187	11.8	56.2	22	2	AR093708	AR093708 Sequence
c 188	11.8	56.2	22	2	AR139632	AR139632 Sequence
c 189	11.8	56.2	22	2	AR154144	AR154144 Sequence
c 190	11.8	56.2	23	2	BD167866	BD167866 Survivin-
c 191	11.8	56.2	23	2	BD185378	BD185378 Survivin-
c 192	11.8	56.2	23	2	CS070735	CS070735 Sequence
c 193	11.8	56.2	23	2	AR179492	AR179492 Sequence
c 194	11.8	56.2	23	2	AR632161	AR632161 Sequence
c 195	11.8	56.2	25	2	AR093710	AR093710 Sequence
c 196	11.8	56.2	25	2	AR139634	AR139634 Sequence
c 197	11.8	56.2	25	2	AR154146	AR154146 Sequence
c 198	11.8	56.2	25	2	BD103489	BD103489 New recom
199	11.8	56.2	26	2	AR093709	AR093709 Sequence
200	11.8	56.2	26	2	AR139633	AR139633 Sequence
201	11.8	56.2	26	2	AR154145	AR154145 Sequence
202	11.8	56.2	28	2	BD097272	BD097272 Novel col
c 203	11.6	55.2	18	2	BD185983	BD185983 Novel pol
204	11.6	55.2	18	2	BD224982	BD224982 Antisense
205	11.6	55.2	18	2	AR211204	AR211204 Sequence
c 206	11.6	55.2	18	2	AX195341	AX195341 Sequence
207	11.6	55.2	20	2	AR026532	AR026532 Sequence
208	11.6	55.2	20	2	AR067189	AR067189 Sequence
209	11.6	55.2	20	2	AR110493	AR110493 Sequence
210	11.6	55.2	20	2	AR137046	AR137046 Sequence
211	11.6	55.2	20	2	AX962779	AX962779 Sequence
c 212	11.6	55.2	20	2	AX962849	AX962849 Sequence
213	11.6	55.2	20	2	BD170545	BD170545 Method of
214	11.6	55.2	20	2	BD185558	BD185558 A method
215	11.6	55.2	20	2	BD238365	BD238365 HER-2 bin
216	11.6	55.2	20	2	AR451590	AR451590 Sequence
217	11.6	55.2	21	2	DD171733	DD171733 THERAPEUT
218	11.6	55.2	21	2	AR296460	AR296460 Sequence
219	11.6	55.2	22	2	BD176769	BD176769 Method of
220	11.6	55.2	22	2	AR182252	AR182252 Sequence
221	11.6	55.2	22	2	AR322526	AR322526 Sequence
222	11.6	55.2	22	2	AX226426	AX226426 Sequence
223	11.6	55.2	22	2	AX703140	AX703140 Sequence
c 224	11.6	55.2	23	2	BD176770	BD176770 Method of
225	11.6	55.2	23	2	AX454956	AX454956 Sequence
c 226	11.6	55.2	24	2	AX290800	AX290800 Sequence
c 227	11.6	55.2	25	2	CQ618689	CQ618689 Sequence
c 228	11.6	55.2	25	2	CQ618697	CQ618697 Sequence
c 229	11.6	55.2	25	2	AR459752	AR459752 Sequence
c 230	11.6	55.2	25	2	AR459760	AR459760 Sequence
c 231	11.6	55.2	25	2	AX500901	AX500901 Sequence
c 232	11.6	55.2	25	2	AX500909	AX500909 Sequence
233	11.6	55.2	25	2	AX784330	AX784330 Sequence
234	11.6	55.2	25	2	AX784331	AX784331 Sequence
c 235	11.6	55.2	26	2	CQ797677	CQ797677 Sequence

c 236	11.6	55.2	27	2	BD068627	BD068627 Enzymatic
c 237	11.6	55.2	27	2	CQ797685	CQ797685 Sequence
c 238	11.6	55.2	27	2	AR403127	AR403127 Sequence
239	11.6	55.2	27	2	AX763847	AX763847 Sequence
240	11.6	55.2	28	2	CS020224	CS020224 Sequence
241	11.6	55.2	28	2	CS160992	CS160992 Sequence
242	11.6	55.2	30	2	AR109711	AR109711 Sequence
c 243	11.6	55.2	30	2	BD133737	BD133737 Hybrid en
c 244	11.6	55.2	30	2	E59884	E59884 Method for
c 245	11.6	55.2	30	2	AR203427	AR203427 Sequence
c 246	11.6	55.2	30	2	AR226423	AR226423 Sequence
c 247	11.6	55.2	30	2	AR236687	AR236687 Sequence
c 248	11.6	55.2	30	2	AR340229	AR340229 Sequence
c 249	11.6	55.2	30	2	AR404063	AR404063 Sequence
c 250	11.6	55.2	30	2	AR581254	AR581254 Sequence
c 251	11.6	55.2	30	2	AR690558	AR690558 Sequence
c 252	11.6	55.2	30	2	AX343240	AX343240 Sequence
c 253	11.6	55.2	30	2	AX353888	AX353888 Sequence
c 254	11.6	55.2	30	2	AX384015	AX384015 Sequence
c 255	11.4	54.3	17	2	AX783469	AX783469 Sequence
c 256	11.4	54.3	17	2	AX783470	AX783470 Sequence
c 257	11.4	54.3	17	2	AX783471	AX783471 Sequence
c 258	11.4	54.3	17	2	AX783472	AX783472 Sequence
c 259	11.4	54.3	17	2	AX783473	AX783473 Sequence
260	11.4	54.3	18	2	AR078866	AR078866 Sequence
c 261	11.4	54.3	18	2	BD086267	BD086267 Vector. 8
262	11.4	54.3	18	2	AR215605	AR215605 Sequence
c 263	11.4	54.3	18	2	AX003403	AX003403 Sequence
264	11.4	54.3	20	2	AR107568	AR107568 Sequence
265	11.4	54.3	20	2	AR107569	AR107569 Sequence
266	11.4	54.3	20	2	AR107570	AR107570 Sequence
267	11.4	54.3	20	2	AR107571	AR107571 Sequence
c 268	11.4	54.3	20	2	AR148273	AR148273 Sequence
269	11.4	54.3	20	2	BD088576	BD088576 A method
c 270	11.4	54.3	20	2	AR373829	AR373829 Sequence
c 271	11.4	54.3	20	2	AX020082	AX020082 Sequence
c 272	11.4	54.3	20	2	AX418826	AX418826 Sequence
c 273	11.4	54.3	20	2	AX657407	AX657407 Sequence
274	11.4	54.3	21	2	AX114322	AX114322 Sequence
275	11.4	54.3	21	2	AX458722	AX458722 Sequence
c 276	11.4	54.3	22	2	AR162049	AR162049 Sequence
c 277	11.4	54.3	22	2	CQ971734	CQ971734 Sequence
c 278	11.4	54.3	22	2	CS163097	CS163097 Sequence
279	11.4	54.3	22	2	AX235471	AX235471 Sequence
280	11.4	54.3	22	2	AX235483	AX235483 Sequence
281	11.4	54.3	22	2	AX769421	AX769421 Sequence
282	11.4	54.3	23	2	AR146760	AR146760 Sequence
283	11.4	54.3	23	2	BD142691	BD142691 Polypepti
c 284	11.4	54.3	23	2	CQ875212	CQ875212 Sequence
285	11.4	54.3	23	2	CS174529	CS174529 Sequence
c 286	11.4	54.3	23	2	AX077382	AX077382 Sequence
c 287	11.4	54.3	24	2	BD069133	BD069133 Methods f
288	11.4	54.3	24	2	CS163100	CS163100 Sequence
289	11.4	54.3	24	2	CS245625	CS245625 Sequence
290	11.4	54.3	24	2	AR252746	AR252746 Sequence
c 291	11.4	54.3	24	2	AR490184	AR490184 Sequence
292	11.4	54.3	24	2	AR693636	AR693636 Sequence
293	11.4	54.3	24	2	AR706188	AR706188 Sequence
294	11.4	54.3	24	2	AR757561	AR757561 Sequence
295	11.4	54.3	24	2	AR759061	AR759061 Sequence
296	11.4	54.3	24	2	AR776375	AR776375 Sequence

297	11.4	54.3	24	2	AX403639	AX403639 Sequence
c 298	11.4	54.3	25	2	CQ767707	CQ767707 Sequence
c 299	11.4	54.3	25	2	AR697500	AR697500 Sequence
c 300	11.4	54.3	25	2	AR762223	AR762223 Sequence
c 301	11.4	54.3	25	2	AR777494	AR777494 Sequence
c 302	11.4	54.3	25	2	AX538212	AX538212 Sequence
c 303	11.4	54.3	25	2	AX784359	AX784359 Sequence
c 304	11.4	54.3	25	2	AX784360	AX784360 Sequence
c 305	11.4	54.3	25	2	AX784361	AX784361 Sequence
c 306	11.4	54.3	25	2	AX784362	AX784362 Sequence
c 307	11.4	54.3	25	2	AX784363	AX784363 Sequence
c 308	11.4	54.3	25	2	AX784364	AX784364 Sequence
c 309	11.4	54.3	25	2	AX784365	AX784365 Sequence
c 310	11.4	54.3	25	2	AX784366	AX784366 Sequence
c 311	11.4	54.3	25	2	AX784367	AX784367 Sequence
c 312	11.4	54.3	25	2	AX784368	AX784368 Sequence
c 313	11.4	54.3	25	2	AX784369	AX784369 Sequence
c 314	11.4	54.3	25	2	AX784370	AX784370 Sequence
c 315	11.4	54.3	25	2	AX784371	AX784371 Sequence
316	11.4	54.3	29	2	BD142693	BD142693 Polypepti
c 317	11.4	54.3	29	2	AR604846	AR604846 Sequence
c 318	11.4	54.3	29	2	AR639895	AR639895 Sequence
c 319	11.4	54.3	29	2	AR642490	AR642490 Sequence
c 320	11.4	54.3	30	2	AR090107	AR090107 Sequence
c 321	11.4	54.3	30	2	AR119849	AR119849 Sequence
c 322	11.4	54.3	30	2	AR197142	AR197142 Sequence
c 323	11.4	54.3	30	2	AR208293	AR208293 Sequence
c 324	11.4	54.3	30	2	AR259296	AR259296 Sequence
c 325	11.4	54.3	30	2	AX057103	AX057103 Sequence
326	11.2	53.3	16	2	AR145777	AR145777 Sequence
c 327	11.2	53.3	17	2	CQ615761	CQ615761 Sequence
c 328	11.2	53.3	17	2	CQ615762	CQ615762 Sequence
c 329	11.2	53.3	17	2	CQ621637	CQ621637 Sequence
c 330	11.2	53.3	17	2	CQ621638	CQ621638 Sequence
c 331	11.2	53.3	17	2	AR456824	AR456824 Sequence
c 332	11.2	53.3	17	2	AR456825	AR456825 Sequence
c 333	11.2	53.3	17	2	AR462700	AR462700 Sequence
c 334	11.2	53.3	17	2	AR462701	AR462701 Sequence
c 335	11.2	53.3	17	2	AX215370	AX215370 Sequence
336	11.2	53.3	17	2	AX499575	AX499575 Sequence
337	11.2	53.3	17	2	AX499576	AX499576 Sequence
338	11.2	53.3	18	2	E04956	E04956 DNA sequenc
c 339	11.2	53.3	18	2	AR568881	AR568881 Sequence
340	11.2	53.3	19	2	AR145779	AR145779 Sequence
c 341	11.2	53.3	19	2	CS174540	CS174540 Sequence
342	11.2	53.3	19	2	DD164838	DD164838 Methods o
343	11.2	53.3	20	2	AR006815	AR006815 Sequence
344	11.2	53.3	20	2	AR124137	AR124137 Sequence
345	11.2	53.3	20	2	BD001975	BD001975 Process f
c 346	11.2	53.3	20	2	AR233322	AR233322 Sequence
347	11.2	53.3	20	2	I61176	I61176 Sequence 1
348	11.2	53.3	20	2	I71327	I71327 Sequence 11
349	11.2	53.3	20	2	I78725	I78725 Sequence 1
350	11.2	53.3	20	2	AR397483	AR397483 Sequence
351	11.2	53.3	20	2	AR580148	AR580148 Sequence
352	11.2	53.3	20	2	AR655751	AR655751 Sequence
353	11.2	53.3	20	2	AR690289	AR690289 Sequence
c 354	11.2	53.3	20	2	AR690361	AR690361 Sequence
c 355	11.2	53.3	20	2	AX662807	AX662807 Sequence
c 356	11.2	53.3	20	2	AX663381	AX663381 Sequence
c 357	11.2	53.3	21	2	CQ812195	CQ812195 Sequence

c 358	11.2	53.3	21	2	CQ816641	CQ816641 Sequence
c 359	11.2	53.3	21	2	CS173581	CS173581 Sequence
360	11.2	53.3	21	2	AR299058	AR299058 Sequence
361	11.2	53.3	21	2	AX154421	AX154421 Sequence
362	11.2	53.3	21	2	AX463116	AX463116 Sequence
363	11.2	53.3	22	2	A64071	A64071 Sequence 8
364	11.2	53.3	22	2	AR137393	AR137393 Sequence
c 365	11.2	53.3	22	2	BD010961	BD010961 Novel phy
c 366	11.2	53.3	22	2	BD010966	BD010966 Novel phy
c 367	11.2	53.3	22	2	BD093267	BD093267 Novel phy
c 368	11.2	53.3	22	2	BD093272	BD093272 Novel phy
c 369	11.2	53.3	22	2	I46608	I46608 Sequence 58
c 370	11.2	53.3	22	2	AX587360	AX587360 Sequence
c 371	11.2	53.3	23	2	CS080101	CS080101 Sequence
c 372	11.2	53.3	23	2	CS080102	CS080102 Sequence
c 373	11.2	53.3	24	2	CQ827779	CQ827779 Sequence
c 374	11.2	53.3	24	2	CQ827833	CQ827833 Sequence
c 375	11.2	53.3	24	2	AR595085	AR595085 Sequence
c 376	11.2	53.3	24	2	AX031335	AX031335 Sequence
377	11.2	53.3	24	2	AX291993	AX291993 Sequence
378	11.2	53.3	25	2	BD234585	BD234585 Glucoamyl
c 379	11.2	53.3	25	2	CQ618698	CQ618698 Sequence
c 380	11.2	53.3	25	2	CQ618699	CQ618699 Sequence
c 381	11.2	53.3	25	2	CQ626529	CQ626529 Sequence
c 382	11.2	53.3	25	2	CQ626530	CQ626530 Sequence
c 383	11.2	53.3	25	2	CQ626531	CQ626531 Sequence
c 384	11.2	53.3	25	2	CQ626532	CQ626532 Sequence
c 385	11.2	53.3	25	2	CQ626533	CQ626533 Sequence
c 386	11.2	53.3	25	2	CQ626534	CQ626534 Sequence
c 387	11.2	53.3	25	2	CQ626535	CQ626535 Sequence
c 388	11.2	53.3	25	2	CQ626536	CQ626536 Sequence
c 389	11.2	53.3	25	2	CQ626537	CQ626537 Sequence
c 390	11.2	53.3	25	2	CQ626538	CQ626538 Sequence
c 391	11.2	53.3	25	2	CQ862834	CQ862834 Sequence
392	11.2	53.3	25	2	CS141191	CS141191 Sequence
393	11.2	53.3	25	2	AR366526	AR366526 Sequence
c 394	11.2	53.3	25	2	AR459761	AR459761 Sequence
c 395	11.2	53.3	25	2	AR459762	AR459762 Sequence
c 396	11.2	53.3	25	2	AR467592	AR467592 Sequence
c 397	11.2	53.3	25	2	AR467593	AR467593 Sequence
c 398	11.2	53.3	25	2	AR467594	AR467594 Sequence
c 399	11.2	53.3	25	2	AR467595	AR467595 Sequence
c 400	11.2	53.3	25	2	AR467596	AR467596 Sequence
c 401	11.2	53.3	25	2	AR467597	AR467597 Sequence
c 402	11.2	53.3	25	2	AR467598	AR467598 Sequence
c 403	11.2	53.3	25	2	AR467599	AR467599 Sequence
c 404	11.2	53.3	25	2	AR467600	AR467600 Sequence
c 405	11.2	53.3	25	2	AR467601	AR467601 Sequence
406	11.2	53.3	25	2	AX501572	AX501572 Sequence
407	11.2	53.3	25	2	AX501573	AX501573 Sequence
408	11.2	53.3	25	2	AX501574	AX501574 Sequence
409	11.2	53.3	25	2	AX501575	AX501575 Sequence
410	11.2	53.3	25	2	AX501576	AX501576 Sequence
411	11.2	53.3	25	2	AX501577	AX501577 Sequence
412	11.2	53.3	25	2	AX501578	AX501578 Sequence
413	11.2	53.3	25	2	AX501579	AX501579 Sequence
414	11.2	53.3	25	2	AX501580	AX501580 Sequence
415	11.2	53.3	25	2	AX501581	AX501581 Sequence
c 416	11.2	53.3	25	2	AX665244	AX665244 Sequence
c 417	11.2	53.3	26	2	CQ797693	CQ797693 Sequence
c 418	11.2	53.3	26	2	CQ830688	CQ830688 Sequence

c 419	11.2	53.3	27	2	AR143779	AR143779 Sequence
c 420	11.2	53.3	27	2	AX172367	AX172367 Sequence
421	11.2	53.3	27	2	AX598358	AX598358 Sequence
c 422	11.2	53.3	28	2	CQ794118	CQ794118 Sequence
c 423	11.2	53.3	28	2	CQ800087	CQ800087 Sequence
c 424	11.2	53.3	28	2	AX461501	AX461501 Sequence
c 425	11.2	53.3	30	2	AR061348	AR061348 Sequence
c 426	11.2	53.3	30	2	AR108247	AR108247 Sequence
427	11.2	53.3	30	2	AR121366	AR121366 Sequence
c 428	11.2	53.3	30	2	AX960336	AX960336 Sequence
429	11.2	53.3	30	2	AX960337	AX960337 Sequence
430	11.2	53.3	30	2	CS097637	CS097637 Sequence
431	11.2	53.3	30	2	CS141216	CS141216 Sequence
c 432	11.2	53.3	30	2	I16204	I16204 Sequence 30
433	11.2	53.3	30	2	AR213275	AR213275 Sequence
c 434	11.2	53.3	30	2	AR263208	AR263208 Sequence
435	11.2	53.3	30	2	I50889	I50889 Sequence 1
c 436	11.2	53.3	30	2	I66690	I66690 Sequence 30
c 437	11.2	53.3	30	2	I84784	I84784 Sequence 30
438	11.2	53.3	30	2	AR652756	AR652756 Sequence
439	11.2	53.3	30	2	AR703253	AR703253 Sequence
c 440	11.2	53.3	30	2	AR706528	AR706528 Sequence
c 441	11.2	53.3	30	2	AX793814	AX793814 Sequence
442	11	52.4	17	2	AR158457	AR158457 Sequence
443	11	52.4	17	2	AR158458	AR158458 Sequence
444	11	52.4	17	2	AR158459	AR158459 Sequence
445	11	52.4	17	2	AR158460	AR158460 Sequence
446	11	52.4	17	2	AR158461	AR158461 Sequence
447	11	52.4	17	2	AR158462	AR158462 Sequence
448	11	52.4	17	2	AR158463	AR158463 Sequence
c 449	11	52.4	18	2	BD230647	BD230647 Total gen
450	11	52.4	18	2	AR678392	AR678392 Sequence
c 451	11	52.4	19	2	CS178777	CS178777 Sequence
452	11	52.4	19	2	DD200652	DD200652 RNA Inter
c 453	11	52.4	19	2	DD200837	DD200837 RNA Inter
c 454	11	52.4	19	2	AX448894	AX448894 Sequence
455	11	52.4	19	2	AX608710	AX608710 Sequence
456	11	52.4	20	2	AR036915	AR036915 Sequence
c 457	11	52.4	20	2	AR036916	AR036916 Sequence
458	11	52.4	20	2	AR043155	AR043155 Sequence
c 459	11	52.4	20	2	AR043156	AR043156 Sequence
460	11	52.4	20	2	AR050516	AR050516 Sequence
c 461	11	52.4	20	2	AR050517	AR050517 Sequence
c 462	11	52.4	20	2	AR050647	AR050647 Sequence
463	11	52.4	20	2	AR051145	AR051145 Sequence
464	11	52.4	20	2	AR074655	AR074655 Sequence
c 465	11	52.4	20	2	AR074656	AR074656 Sequence
466	11	52.4	20	2	AR097250	AR097250 Sequence
c 467	11	52.4	20	2	AR097251	AR097251 Sequence
c 468	11	52.4	20	2	AR117696	AR117696 Sequence
c 469	11	52.4	20	2	AR130114	AR130114 Sequence
c 470	11	52.4	20	2	AR146673	AR146673 Sequence
471	11	52.4	20	2	AR147482	AR147482 Sequence
c 472	11	52.4	20	2	AR147483	AR147483 Sequence
c 473	11	52.4	20	2	AR153774	AR153774 Sequence
474	11	52.4	20	2	AR153776	AR153776 Sequence
c 475	11	52.4	20	2	AR156144	AR156144 Sequence
c 476	11	52.4	20	2	BD003394	BD003394 Methods a
477	11	52.4	20	2	BD003396	BD003396 Methods a
478	11	52.4	20	2	BD074169	BD074169 Examinati
c 479	11	52.4	20	2	BD074170	BD074170 Examinati



c 480	11	52.4	20	2	BD080248	BD080248 Nucleic a
c 481	11	52.4	20	2	BD080620	BD080620 Genetic p
482	11	52.4	20	2	BD137888	BD137888 Detection
c 483	11	52.4	20	2	BD137889	BD137889 Detection
c 484	11	52.4	20	2	BD138125	BD138125 Antisense
485	11	52.4	20	2	BD177739	BD177739 A method
c 486	11	52.4	20	2	BD178848	BD178848 Gene pane
487	11	52.4	20	2	BD206087	BD206087 Insulin-1
488	11	52.4	20	2	BD225297	BD225297 Strains i
489	11	52.4	20	2	BD243829	BD243829 Detection
c 490	11	52.4	20	2	BD243830	BD243830 Detection
491	11	52.4	20	2	BD272741	BD272741 Antisense
492	11	52.4	20	2	CQ813044	CQ813044 Sequence
c 493	11	52.4	20	2	CQ813045	CQ813045 Sequence
494	11	52.4	20	2	CQ830763	CQ830763 Sequence
c 495	11	52.4	20	2	CQ830764	CQ830764 Sequence
496	11	52.4	20	2	CQ848505	CQ848505 Sequence
c 497	11	52.4	20	2	CQ848506	CQ848506 Sequence
c 498	11	52.4	20	2	CS056378	CS056378 Sequence
c 499	11	52.4	20	2	CS080290	CS080290 Sequence
500	11	52.4	20	2	CS083153	CS083153 Sequence
c 501	11	52.4	20	2	I12482	I12482 Sequence 2
502	11	52.4	20	2	I12484	I12484 Sequence 4
503	11	52.4	20	2	I32095	I32095 Sequence 39
c 504	11	52.4	20	2	I32096	I32096 Sequence 40
c 505	11	52.4	20	2	I43103	I43103 Sequence 2
506	11	52.4	20	2	I43105	I43105 Sequence 4
c 507	11	52.4	20	2	I44634	I44634 Sequence 2
508	11	52.4	20	2	I44636	I44636 Sequence 4
509	11	52.4	20	2	AR200613	AR200613 Sequence
c 510	11	52.4	20	2	AR200614	AR200614 Sequence
511	11	52.4	20	2	AR217896	AR217896 Sequence
512	11	52.4	20	2	AR256571	AR256571 Sequence
c 513	11	52.4	20	2	AR256572	AR256572 Sequence
c 514	11	52.4	20	2	AR373761	AR373761 Sequence
515	11	52.4	20	2	I51705	I51705 Sequence 26
c 516	11	52.4	20	2	I51813	I51813 Sequence 2
517	11	52.4	20	2	I51815	I51815 Sequence 4
c 518	11	52.4	20	2	I74347	I74347 Sequence 2
519	11	52.4	20	2	I74349	I74349 Sequence 4
520	11	52.4	20	2	AR429570	AR429570 Sequence
c 521	11	52.4	20	2	AR429571	AR429571 Sequence
522	11	52.4	20	2	AR444843	AR444843 Sequence
523	11	52.4	20	2	AR531489	AR531489 Sequence
524	11	52.4	20	2	AR533938	AR533938 Sequence
525	11	52.4	20	2	AR534211	AR534211 Sequence
c 526	11	52.4	20	2	AR534212	AR534212 Sequence
c 527	11	52.4	20	2	AR576021	AR576021 Sequence
528	11	52.4	20	2	AR632486	AR632486 Sequence
c 529	11	52.4	20	2	AR632487	AR632487 Sequence
c 530	11	52.4	20	2	AR637326	AR637326 Sequence
531	11	52.4	20	2	AR649288	AR649288 Sequence
c 532	11	52.4	20	2	AR699693	AR699693 Sequence
533	11	52.4	20	2	AR761770	AR761770 Sequence
c 534	11	52.4	20	2	AX020630	AX020630 Sequence
c 535	11	52.4	20	2	AX037500	AX037500 Sequence
c 536	11	52.4	20	2	AX055805	AX055805 Sequence
c 537	11	52.4	20	2	AX108292	AX108292 Sequence
c 538	11	52.4	20	2	AX108394	AX108394 Sequence
539	11	52.4	20	2	AX195370	AX195370 Sequence
c 540	11	52.4	20	2	AX195371	AX195371 Sequence

c 541	11	52.4	20	2	AX224891	AX224891 Sequence
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c 543	11	52.4	20	2	AX269459	AX269459 Sequence
c 544	11	52.4	20	2	AX270990	AX270990 Sequence
545	11	52.4	20	2	AX375722	AX375722 Sequence
c 546	11	52.4	20	2	AX375723	AX375723 Sequence
c 547	11	52.4	20	2	AX418758	AX418758 Sequence
548	11	52.4	20	2	AX487846	AX487846 Sequence
c 549	11	52.4	20	2	AX538519	AX538519 Sequence
c 550	11	52.4	20	2	AX587505	AX587505 Sequence
551	11	52.4	20	2	AX592668	AX592668 Sequence
c 552	11	52.4	20	2	AX592669	AX592669 Sequence
c 553	11	52.4	20	2	AX642908	AX642908 Sequence
554	11	52.4	21	2	AR081662	AR081662 Sequence
555	11	52.4	21	2	AR145771	AR145771 Sequence
c 556	11	52.4	21	2	BD086377	BD086377 KCNQ2 and
557	11	52.4	21	2	BD266130	BD266130 Universal
c 558	11	52.4	21	2	CQ827335	CQ827335 Sequence
c 559	11	52.4	21	2	CS227096	CS227096 Sequence
560	11	52.4	21	2	I29127	I29127 Sequence 48
561	11	52.4	21	2	I42174	I42174 Sequence 48
c 562	11	52.4	21	2	AR216908	AR216908 Sequence
c 563	11	52.4	21	2	AR635170	AR635170 Sequence
564	11	52.4	22	2	DD159601	DD159601 A composi
c 565	11	52.4	22	2	AR224701	AR224701 Sequence
c 566	11	52.4	22	2	AR235606	AR235606 Sequence
c 567	11	52.4	22	2	AR715640	AR715640 Sequence
c 568	11	52.4	22	2	AX536233	AX536233 Sequence
569	11	52.4	23	2	CS014180	CS014180 Sequence
570	11	52.4	23	2	DD174428	DD174428 Repeat Se
c 571	11	52.4	23	2	AR229488	AR229488 Sequence
572	11	52.4	24	2	AX445669	AX445669 Sequence
573	11	52.4	25	2	E54606	E54606 Gene diagno
574	11	52.4	25	2	AX128291	AX128291 Sequence
575	11	52.4	25	2	AX207057	AX207057 Sequence
576	11	52.4	25	2	AX609110	AX609110 Sequence
c 577	11	52.4	25	2	AX663329	AX663329 Sequence
578	11	52.4	25	2	AX784323	AX784323 Sequence
579	11	52.4	26	2	AR090006	AR090006 Sequence
c 580	11	52.4	26	2	BD075439	BD075439 Secretory
c 581	11	52.4	26	2	BD172299	BD172299 Secreted
c 582	11	52.4	26	2	BD172618	BD172618 Secreted
c 583	11	52.4	26	2	BD172937	BD172937 Secreted
c 584	11	52.4	26	2	BD173256	BD173256 Secreted
c 585	11	52.4	26	2	BD175290	BD175290 Secretory
586	11	52.4	26	2	CQ848889	CQ848889 Sequence
c 587	11	52.4	26	2	CS084601	CS084601 Sequence
c 588	11	52.4	26	2	CS084815	CS084815 Sequence
589	11	52.4	26	2	AR197041	AR197041 Sequence
c 590	11	52.4	26	2	AR210303	AR210303 Sequence
591	11	52.4	26	2	AR259195	AR259195 Sequence
c 592	11	52.4	26	2	AR410668	AR410668 Sequence
c 593	11	52.4	26	2	AR439032	AR439032 Sequence
c 594	11	52.4	26	2	AR473052	AR473052 Sequence
c 595	11	52.4	26	2	AR475992	AR475992 Sequence
c 596	11	52.4	26	2	AR527038	AR527038 Sequence
c 597	11	52.4	26	2	AR566071	AR566071 Sequence
c 598	11	52.4	26	2	AR592089	AR592089 Sequence
c 599	11	52.4	26	2	AR604363	AR604363 Sequence
c 600	11	52.4	26	2	AR604949	AR604949 Sequence
c 601	11	52.4	26	2	AR613614	AR613614 Sequence

c 602	11	52.4	26	2	AR635785	AR635785 Sequence
c 603	11	52.4	26	2	AR650514	AR650514 Sequence
c 604	11	52.4	26	2	AR657455	AR657455 Sequence
c 605	11	52.4	26	2	AR720407	AR720407 Sequence
c 606	11	52.4	26	2	AR770966	AR770966 Sequence
c 607	11	52.4	26	2	AR771333	AR771333 Sequence
608	11	52.4	26	2	AX376968	AX376968 Sequence
c 609	11	52.4	26	2	AX402731	AX402731 Sequence
c 610	11	52.4	26	2	AX402945	AX402945 Sequence
c 611	11	52.4	26	2	AX697496	AX697496 Sequence
c 612	11	52.4	26	2	AX839137	AX839137 Sequence
c 613	11	52.4	27	2	AR189520	AR189520 Sequence
c 614	11	52.4	27	2	AR190799	AR190799 Sequence
c 615	11	52.4	27	2	AX329327	AX329327 Sequence
616	11	52.4	28	2	AX403028	AX403028 Sequence
617	11	52.4	28	2	AX403031	AX403031 Sequence
c 618	11	52.4	29	2	BD105970	BD105970 Animal mo
c 619	11	52.4	29	2	CQ831719	CQ831719 Sequence
c 620	11	52.4	29	2	AR533400	AR533400 Sequence
c 621	11	52.4	30	2	AR120935	AR120935 Sequence
622	11	52.4	30	2	AR120936	AR120936 Sequence
623	11	52.4	30	2	AR120937	AR120937 Sequence
624	11	52.4	30	2	AR120938	AR120938 Sequence
625	11	52.4	30	2	AR120939	AR120939 Sequence
626	11	52.4	30	2	AR120940	AR120940 Sequence
627	11	52.4	30	2	AR120941	AR120941 Sequence
628	11	52.4	30	2	AR120942	AR120942 Sequence
629	11	52.4	30	2	AR120943	AR120943 Sequence
630	11	52.4	30	2	AR120944	AR120944 Sequence
631	11	52.4	30	2	AR120945	AR120945 Sequence
632	11	52.4	30	2	AR120946	AR120946 Sequence
c 633	11	52.4	30	2	AR153051	AR153051 Sequence
634	11	52.4	30	2	AR153052	AR153052 Sequence
635	11	52.4	30	2	AR153055	AR153055 Sequence
636	11	52.4	30	2	AR153056	AR153056 Sequence
637	11	52.4	30	2	AR153057	AR153057 Sequence
638	11	52.4	30	2	AR153061	AR153061 Sequence
639	11	52.4	30	2	AR153062	AR153062 Sequence
640	11	52.4	30	2	AR153063	AR153063 Sequence
641	11	52.4	30	2	AR153067	AR153067 Sequence
642	11	52.4	30	2	AR153068	AR153068 Sequence
643	11	52.4	30	2	AR153069	AR153069 Sequence
644	11	52.4	30	2	AR153070	AR153070 Sequence
c 645	11	52.4	30	2	AR153188	AR153188 Sequence
c 646	11	52.4	30	2	AR153189	AR153189 Sequence
647	11	52.4	30	2	AR153190	AR153190 Sequence
c 648	11	52.4	30	2	AR153191	AR153191 Sequence
649	11	52.4	30	2	AR163227	AR163227 Sequence
c 650	11	52.4	30	2	AR163330	AR163330 Sequence
651	11	52.4	30	2	AR163331	AR163331 Sequence
c 652	11	52.4	30	2	BD064028	BD064028 Novel exp
c 653	11	52.4	30	2	BD134076	BD134076 Detection
654	11	52.4	30	2	BD134077	BD134077 Detection
655	11	52.4	30	2	BD134078	BD134078 Detection
656	11	52.4	30	2	BD134079	BD134079 Detection
657	11	52.4	30	2	BD134080	BD134080 Detection
658	11	52.4	30	2	BD134081	BD134081 Detection
659	11	52.4	30	2	BD134082	BD134082 Detection
660	11	52.4	30	2	BD134083	BD134083 Detection
661	11	52.4	30	2	BD134084	BD134084 Detection
662	11	52.4	30	2	BD134085	BD134085 Detection

663	11	52.4	30	2	BD134086	BD134086	Detection
664	11	52.4	30	2	BD134087	BD134087	Detection
c 665	11	52.4	30	2	BD242932	BD242932	Method fo
666	11	52.4	30	2	BD242933	BD242933	Method fo
667	11	52.4	30	2	AR210901	AR210901	Sequence
668	11	52.4	30	2	AR431652	AR431652	Sequence
c 669	11	52.4	30	2	AR533028	AR533028	Sequence
670	11	52.4	30	2	AR533029	AR533029	Sequence
671	11	52.4	30	2	AR533032	AR533032	Sequence
672	11	52.4	30	2	AR533033	AR533033	Sequence
673	11	52.4	30	2	AR533034	AR533034	Sequence
674	11	52.4	30	2	AR533038	AR533038	Sequence
675	11	52.4	30	2	AR533039	AR533039	Sequence
676	11	52.4	30	2	AR533040	AR533040	Sequence
677	11	52.4	30	2	AR533044	AR533044	Sequence
678	11	52.4	30	2	AR533045	AR533045	Sequence
679	11	52.4	30	2	AR533046	AR533046	Sequence
680	11	52.4	30	2	AR533047	AR533047	Sequence
c 681	11	52.4	30	2	AR533165	AR533165	Sequence
c 682	11	52.4	30	2	AR533166	AR533166	Sequence
683	11	52.4	30	2	AR533167	AR533167	Sequence
c 684	11	52.4	30	2	AR533168	AR533168	Sequence
685	11	52.4	30	2	AX538294	AX538294	Sequence
c 686	11	52.4	30	2	AX611081	AX611081	Sequence
c 687	11	52.4	30	2	AX791147	AX791147	Sequence
c 688	10.8	51.4	17	2	CQ621639	CQ621639	Sequence
c 689	10.8	51.4	17	2	CQ621640	CQ621640	Sequence
c 690	10.8	51.4	17	2	AR286446	AR286446	Sequence
c 691	10.8	51.4	17	2	AR398436	AR398436	Sequence
c 692	10.8	51.4	17	2	AR462702	AR462702	Sequence
c 693	10.8	51.4	17	2	AR462703	AR462703	Sequence
c 694	10.8	51.4	17	2	AX498905	AX498905	Sequence
c 695	10.8	51.4	17	2	AX498906	AX498906	Sequence
c 696	10.8	51.4	17	2	AX498907	AX498907	Sequence
c 697	10.8	51.4	17	2	AX498908	AX498908	Sequence
698	10.8	51.4	17	2	AX673758	AX673758	Sequence
699	10.8	51.4	17	2	AX674338	AX674338	Sequence
700	10.8	51.4	17	2	AX676124	AX676124	Sequence
701	10.8	51.4	17	2	AX723820	AX723820	Sequence
c 702	10.8	51.4	17	2	AX725418	AX725418	Sequence
703	10.8	51.4	17	2	AX731209	AX731209	Sequence
c 704	10.8	51.4	17	2	AX759256	AX759256	Sequence
705	10.8	51.4	17	2	AX761835	AX761835	Sequence
706	10.8	51.4	17	2	AX762988	AX762988	Sequence
c 707	10.8	51.4	17	2	AX782442	AX782442	Sequence
c 708	10.8	51.4	17	2	AX782443	AX782443	Sequence
c 709	10.8	51.4	17	2	AX782444	AX782444	Sequence
c 710	10.8	51.4	17	2	AX782445	AX782445	Sequence
711	10.8	51.4	17	2	AX783428	AX783428	Sequence
712	10.8	51.4	17	2	AX783429	AX783429	Sequence
713	10.8	51.4	17	2	AX783430	AX783430	Sequence
714	10.8	51.4	17	2	AX783431	AX783431	Sequence
c 715	10.8	51.4	17	2	AX783611	AX783611	Sequence
c 716	10.8	51.4	17	2	AX783612	AX783612	Sequence
c 717	10.8	51.4	17	2	AX783613	AX783613	Sequence
c 718	10.8	51.4	17	2	AX783614	AX783614	Sequence
c 719	10.8	51.4	18	2	A92625	A92625	Sequence 6
720	10.8	51.4	18	2	AR096397	AR096397	Sequence
721	10.8	51.4	18	2	AR138071	AR138071	Sequence
722	10.8	51.4	18	2	BD217445	BD217445	Antisense
723	10.8	51.4	18	2	BD226622	BD226622	Antisense

724	10.8	51.4	18	2	BD231493	BD231493 Chromosom
c 725	10.8	51.4	18	2	BD231494	BD231494 Chromosom
726	10.8	51.4	18	2	BD250527	BD250527 Identific
727	10.8	51.4	18	2	AR631358	AR631358 Sequence
c 728	10.8	51.4	18	2	AR631359	AR631359 Sequence
729	10.8	51.4	19	2	A95031	A95031 Sequence 37
c 730	10.8	51.4	19	2	AR063181	AR063181 Sequence
c 731	10.8	51.4	19	2	AR071377	AR071377 Sequence
c 732	10.8	51.4	19	2	AR119363	AR119363 Sequence
733	10.8	51.4	19	2	BD088723	BD088723 A method
734	10.8	51.4	19	2	BD088829	BD088829 A method
735	10.8	51.4	19	2	CQ968426	CQ968426 Sequence
736	10.8	51.4	19	2	CQ968427	CQ968427 Sequence
737	10.8	51.4	19	2	CQ968428	CQ968428 Sequence
738	10.8	51.4	19	2	CQ968429	CQ968429 Sequence
739	10.8	51.4	19	2	CQ968430	CQ968430 Sequence
740	10.8	51.4	19	2	CQ968431	CQ968431 Sequence
c 741	10.8	51.4	19	2	DD201263	DD201263 RNA Inter
742	10.8	51.4	19	2	DD201386	DD201386 RNA Inter
743	10.8	51.4	19	2	E38383	E38383 Binding par
744	10.8	51.4	19	2	E39027	E39027 Nucleic aci
745	10.8	51.4	19	2	AX022675	AX022675 Sequence
746	10.8	51.4	19	2	AX110626	AX110626 Sequence
747	10.8	51.4	19	8	AB068362	AB068362 Synthetic
748	10.8	51.4	19	8	AB068364	AB068364 Synthetic
c 749	10.8	51.4	20	2	AR016537	AR016537 Sequence
c 750	10.8	51.4	20	2	AR021257	AR021257 Sequence
c 751	10.8	51.4	20	2	AR036811	AR036811 Sequence
c 752	10.8	51.4	20	2	AR117656	AR117656 Sequence
753	10.8	51.4	20	2	BD167919	BD167919 Method of
c 754	10.8	51.4	20	2	CQ943370	CQ943370 Sequence
755	10.8	51.4	20	2	CQ944282	CQ944282 Sequence
756	10.8	51.4	20	2	CS065622	CS065622 Sequence
757	10.8	51.4	20	2	CS065625	CS065625 Sequence
758	10.8	51.4	20	2	CS065627	CS065627 Sequence
759	10.8	51.4	20	2	CS065632	CS065632 Sequence
760	10.8	51.4	20	2	CS065638	CS065638 Sequence
761	10.8	51.4	20	2	CS065648	CS065648 Sequence
762	10.8	51.4	20	2	CS065652	CS065652 Sequence
c 763	10.8	51.4	20	2	DD183048	DD183048 A set of
764	10.8	51.4	20	2	DD207196	DD207196 REAGENTS
c 765	10.8	51.4	20	2	E06084	E06084 Oligonucleo
c 766	10.8	51.4	20	2	I30427	I30427 Sequence 8
c 767	10.8	51.4	20	2	I35671	I35671 Sequence 8
768	10.8	51.4	20	2	AR255957	AR255957 Sequence
769	10.8	51.4	20	2	AR281984	AR281984 Sequence
c 770	10.8	51.4	20	2	AR428773	AR428773 Sequence
771	10.8	51.4	20	2	AR585406	AR585406 Sequence
c 772	10.8	51.4	20	2	AX294199	AX294199 Sequence
773	10.8	51.4	20	2	AX295722	AX295722 Sequence
774	10.8	51.4	20	2	AX662983	AX662983 Sequence
c 775	10.8	51.4	21	2	AR074284	AR074284 Sequence
c 776	10.8	51.4	21	2	BD056668	BD056668 Method to
c 777	10.8	51.4	21	2	BD091984	BD091984 Recombina
778	10.8	51.4	21	2	BD091985	BD091985 Recombina
779	10.8	51.4	21	2	CS069222	CS069222 Sequence
c 780	10.8	51.4	21	2	AX032646	AX032646 Sequence
c 781	10.8	51.4	21	2	AX154416	AX154416 Sequence
c 782	10.8	51.4	21	2	AX328130	AX328130 Sequence
c 783	10.8	51.4	22	2	AR009526	AR009526 Sequence
c 784	10.8	51.4	22	2	AR172138	AR172138 Sequence

c 785	10.8	51.4	22	2	BD165778	BD165778 Immunorea
c 786	10.8	51.4	22	2	DD192125	DD192125 Decellula
c 787	10.8	51.4	22	2	I66200	I66200 Sequence 7
c 788	10.8	51.4	22	2	I66213	I66213 Sequence 7
789	10.8	51.4	23	2	CS089228	CS089228 Sequence
c 790	10.8	51.4	23	2	I50725	I50725 Sequence 7
791	10.8	51.4	23	2	AX472525	AX472525 Sequence
c 792	10.8	51.4	24	2	I05325	I05325 Sequence 3
c 793	10.8	51.4	24	2	AX289566	AX289566 Sequence
794	10.8	51.4	24	2	AX291089	AX291089 Sequence
795	10.8	51.4	24	2	AX291879	AX291879 Sequence
c 796	10.8	51.4	25	2	CQ626539	CQ626539 Sequence
c 797	10.8	51.4	25	2	CQ626540	CQ626540 Sequence
c 798	10.8	51.4	25	2	CQ767773	CQ767773 Sequence
c 799	10.8	51.4	25	2	CQ888887	CQ888887 Sequence
c 800	10.8	51.4	25	2	CQ963859	CQ963859 Sequence
c 801	10.8	51.4	25	2	I16732	I16732 Sequence 9
c 802	10.8	51.4	25	2	AR239340	AR239340 Sequence
c 803	10.8	51.4	25	2	AR467602	AR467602 Sequence
c 804	10.8	51.4	25	2	AR467603	AR467603 Sequence
c 805	10.8	51.4	25	2	AR697555	AR697555 Sequence
c 806	10.8	51.4	25	2	AR762278	AR762278 Sequence
c 807	10.8	51.4	25	2	AR765397	AR765397 Sequence
c 808	10.8	51.4	25	2	AR777549	AR777549 Sequence
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	967	10.6	50.5	22	2	AR222703	AR222703 Sequence



# SCORE Search Results Details for Application 10728491 and Search Result us-10-728-491- 1.max.rge.

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<a href="#">Page</a>	<a href="#">List</a>	<a href="#">Overview</a>	<a href="#">FAQ</a>	<a href="#">Suggestions</a>

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OM nucleic - nucleic search, using sw model

Run on: November 20, 2006, 05:46:55 ; Search time 2001 Seconds  
(without alignments)  
671.112 Million cell updates/sec

Title: US-10-728-491-1  
Perfect score: 21  
Sequence: 1 ggcugcgugccuccucacugg 21

Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapext 1.0

Searched: 6366136 seqs, 31973710525 residues

Total number of hits satisfying chosen parameters: 1796954

Minimum DB seq length: 0  
Maximum DB seq length: 30

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 1000 summaries

Database : GenEmbl:\*

- 1: gb\_env:\*
- 2: gb\_pat:\*
- 3: gb\_ph:\*
- 4: gb\_pl:\*
- 5: gb\_pr:\*
- 6: gb\_ro:\*
- 7: gb\_sts:\*
- 8: gb\_sy:\*
- 9: gb\_un:\*
- 10: gb\_vi:\*
- 11: gb\_ov:\*
- 12: gb\_htg:\*
- 13: gb\_in:\*
- 14: gb\_om:\*
- 15: gb\_ba:\*

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## ALIGNMENTS

## RESULT 1

AR080883

LOCUS AR080883 .18 bp DNA linear PAT 31-AUG-2000

DEFINITION Sequence 1 from patent US 5969117.

ACCESSION AR080883

VERSION AR080883.1 GI:10007612

KEYWORDS

SOURCE Unknown.

ORGANISM Unknown.

Unclassified.

REFERENCE 1 (bases 1 to 18)

AUTHORS Agrawal, S.

TITLE Modified protein kinase a-specific oligonucleotide

JOURNAL Patent: US 5969117-A 1 19-OCT-1999;

FEATURES Location/Qualifiers

source 1..18

/organism="unknown"

/mol\_type="unassigned DNA"

ORIGIN

Query Match 81.0%; Score 17; DB 2; Length 18;

Best Local Similarity 76.5%; Pred. No. 3.6e+02;

Matches 13; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 5 GCGUGCCUCCUCACUGG 21  
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Db 1 GCGTGCCTCCTCACTGG 17

## RESULT 2

AR080886

LOCUS AR080886 18 bp DNA linear PAT 31-AUG-2000

DEFINITION Sequence 4 from patent US 5969117.

ACCESSION AR080886

VERSION AR080886.1 GI:10007615

KEYWORDS

SOURCE Unknown.

ORGANISM Unknown.

Unclassified.

REFERENCE 1 (bases 1 to 18)

AUTHORS Agrawal,S.

TITLE Modified protein kinase a-specific oligonucleotide

JOURNAL Patent: US 5969117-A 4 19-OCT-1999;

FEATURES Location/Qualifiers

source 1. .18

/organism="unknown"

/mol\_type="unassigned DNA"

## ORIGIN

Query Match 81.0%; Score 17; DB 2; Length 18;

Best Local Similarity 76.5%; Pred. No. 3.6e+02;

Matches 13; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 5 GCGUGCCUCCUCACUGG 21  
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Db 1 GCGTGCCTCCTCACTGG 17

## RESULT 3

AR080888

LOCUS AR080888 18 bp DNA linear PAT 31-AUG-2000

DEFINITION Sequence 6 from patent US 5969117.

ACCESSION AR080888

VERSION AR080888.1 GI:10007617

KEYWORDS

SOURCE Unknown.

ORGANISM Unknown.

Unclassified.

REFERENCE 1 (bases 1 to 18)

AUTHORS Agrawal,S.

TITLE Modified protein kinase a-specific oligonucleotide

JOURNAL Patent: US 5969117-A 6 19-OCT-1999;

FEATURES Location/Qualifiers

source 1. .18

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/mol\_type="unassigned DNA"

## ORIGIN

Query Match 81.0%; Score 17; DB 2; Length 18;

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Matches 13; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 5 GCGUGCCUCCUCACUGG 21  
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Db 1 GCGTGCCTCCTCACTGG 17

## RESULT 4

BD107649

LOCUS BD107649 18 bp DNA linear PAT 18-SEP-2002

DEFINITION Modified protein kinase A-specific oligonucleotides and methods of their use.

ACCESSION BD107649

VERSION BD107649.1 GI:23202467

KEYWORDS JP 2002501370-A/1.

SOURCE unidentified

ORGANISM unidentified

unclassified sequences.

REFERENCE 1 (bases 1 to 18)

AUTHORS Agrawal,S.

TITLE Modified protein kinase A-specific oligonucleotides and methods of their use

JOURNAL Patent: JP 2002501370-A 1 15-JAN-2002;

HYBRIDON INC

COMMENT OS Unidentified

PN JP 2002501370-A/1

PD 15-JAN-2002

PF 12-FEB-1998 JP 1998539567

PR 12-MAR-1997 US 60/040740

PI SUDHIR AGRAWAL

PC C12N15/11,A61K31/70,C07H21/04

CC Strandedness: Single;

CC Topology: Linear;

CC Modified protein kinase A-specific oligonucleotides and methods of their

CC use

FH Key Location/Qualifiers

FT source 1..18

FT /organism='Unidentified'.

FEATURES Location/Qualifiers

source 1..18

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## ORIGIN

Query Match 81.0%; Score 17; DB 2; Length 18;

Best Local Similarity 76.5%; Pred. No. 3.6e+02;

Matches 13; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 5 GCGUGCCUCCUCACUGG 21

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Db 1 GCGTGCCTCCTCACTGG 17

## RESULT 5

BD107652

LOCUS BD107652 18 bp DNA linear PAT 18-SEP-2002

DEFINITION Modified protein kinase A-specific oligonucleotides and methods of their use.

ACCESSION BD107652

VERSION BD107652.1 GI:23202470

KEYWORDS JP 2002501370-A/4.

SOURCE unidentified

ORGANISM unidentified

unclassified sequences.

REFERENCE 1 (bases 1 to 18)

AUTHORS Agrawal,S.

TITLE Modified protein kinase A-specific oligonucleotides and methods of their use

JOURNAL Patent: JP 2002501370-A 4 15-JAN-2002;  
HYBRIDON INC

COMMENT OS Unidentified

PN JP 2002501370-A/4

PD 15-JAN-2002

PF 12-FEB-1998 JP 1998539567

PR 12-MAR-1997 US 60/040740

PI SUDHIR AGRAWAL

PC C12N15/11,A61K31/70,C07H21/04

CC Strandedness: Single;

CC Topology: Linear;

CC Modified protein kinase A-specific oligonucleotides and methods of their use

CC use

FH Key Location/Qualifiers

FT source 1. .18

FT /organism='Unidentified'.

FEATURES Location/Qualifiers

source 1. .18

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## ORIGIN

Query Match 81.0%; Score 17; DB 2; Length 18;

Best Local Similarity 76.5%; Pred. No. 3.6e+02;

Matches 13; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 5 GCGUGCCUCCUCACUGG 21

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Db 1 GCGTGCCTCCTCACTGG 17

## RESULT 6

BD107654

LOCUS BD107654 18 bp DNA linear PAT 18-SEP-2002

DEFINITION Modified protein kinase A-specific oligonucleotides and methods of their use.

ACCESSION BD107654

VERSION BD107654.1 GI:23202472

KEYWORDS JP 2002501370-A/6.

SOURCE unidentified

ORGANISM unidentified

unclassified sequences.

REFERENCE 1 (bases 1 to 18)

AUTHORS Agrawal,S.

TITLE Modified protein kinase A-specific oligonucleotides and methods of their use

JOURNAL Patent: JP 2002501370-A 6 15-JAN-2002;

HYBRIDON INC

COMMENT OS Unidentified

PN JP 2002501370-A/6

PD 15-JAN-2002

PF 12-FEB-1998 JP 1998539567

PR 12-MAR-1997 US 60/040740

PI SUDHIR AGRAWAL

PC C12N15/11,A61K31/70,C07H21/04  
 CC Strandedness: Single;  
 CC Topology: Linear;  
 CC Modified protein kinase A-specific oligonucleotides and methods of their use  
 CC use  
 FH Key Location/Qualifiers  
 FT source 1. .18  
 FT /organism='Unidentified'.

FEATURES Location/Qualifiers  
 source 1. .18  
 /organism="unidentified"  
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## ORIGIN

Query Match 81.0%; Score 17; DB 2; Length 18;  
 Best Local Similarity 76.5%; Pred. No. 3.6e+02;  
 Matches 13; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 5 GCGUGCCUCCACUGG 21  
 |||:||||:|:|:|  
 Db 1 GCGTGCCTCCTCACTGG 17

## RESULT 7

BD192474

LOCUS BD192474 18 bp DNA linear PAT 17-JUL-2003

DEFINITION Compositions and methods for the delivery of oligonucleotides via the alimentary canal.

ACCESSION BD192474

VERSION BD192474.1 GI:33002213

KEYWORDS JP 2002510319-A/39.

SOURCE synthetic construct

ORGANISM synthetic construct  
 other sequences; artificial sequences.

REFERENCE 1 (bases 1 to 18)

AUTHORS Teng,C.L. and Hardee,G.

TITLE Compositions and methods for the delivery of oligonucleotides via the alimentary canal

JOURNAL Patent: JP 2002510319-A 39 02-APR-2002;  
 ISIS PHARMACEUTICALS INC

COMMENT OS Artificial Sequence

PN JP 2002510319-A/39

PD 02-APR-2002

PF 01-JUL-1998 JP 1999507295

PR 01-JUL-1997 US 08/886829

PI CHING LEOU TENG,GREG HARDEE

PC C12Q1/68,A61K9/127,A61K48/00,C07H21/04

CC Description of Artificial Sequence: Novel Sequence FH Key

FEATURES Location/Qualifiers  
 source 1. .18

/organism="synthetic construct"  
 /mol\_type="genomic DNA"  
 /db\_xref="taxon:32630"

## ORIGIN

Query Match 81.0%; Score 17; DB 2; Length 18;  
 Best Local Similarity 76.5%; Pred. No. 3.6e+02;  
 Matches 13; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 5 GCGUGCCUCCUCACUGG 21  
 |||:||||:|:||||:  
 Db 1 GCGTGCCTCCTCACTGG 17

## RESULT 8

BD192475

LOCUS BD192475 18 bp DNA linear PAT 17-JUL-2003

DEFINITION Compositions and methods for the delivery of oligonucleotides via the alimentary canal.

ACCESSION BD192475

VERSION BD192475.1 GI:33002214

KEYWORDS JP 2002510319-A/40.

SOURCE synthetic construct

ORGANISM synthetic construct

other sequences; artificial sequences.

REFERENCE 1 (bases 1 to 18)

AUTHORS Teng,C.L. and Hardee,G.

TITLE Compositions and methods for the delivery of oligonucleotides via the alimentary canal

JOURNAL Patent: JP 2002510319-A 40 02-APR-2002;

ISIS PHARMACEUTICALS INC

COMMENT OS Artificial Sequence

PN JP 2002510319-A/40

PD 02-APR-2002

PF 01-JUL-1998 JP 1999507295

PR 01-JUL-1997 US 08/886829

PI CHING LEOU TENG,GREG HARDEE

PC C12Q1/68,A61K9/127,A61K48/00,C07H21/04

CC Description of Combined DNA/RNA Molecule:

U at positions 4 and

CC 15 are RNA

CC Description of Artificial Sequence: Novel Sequence FH Key

Location/Qualifiers.

FEATURES Location/Qualifiers

source 1..18

/organism="synthetic construct"

/mol\_type="genomic DNA"

/db\_xref="taxon:32630"

## ORIGIN

Query Match 81.0%; Score 17; DB 2; Length 18;

Best Local Similarity 76.5%; Pred. No. 3.6e+02;

Matches 13; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 5 GCGUGCCUCCUCACUGG 21  
 |||:||||:|:||||:  
 Db 1 GCGTGCCTCCTCACTGG 17

## RESULT 9

BD192476

LOCUS BD192476 18 bp DNA linear PAT 17-JUL-2003

DEFINITION Compositions and methods for the delivery of oligonucleotides via the alimentary canal.

ACCESSION BD192476

VERSION BD192476.1 GI:33002215

KEYWORDS JP 2002510319-A/41.

SOURCE synthetic construct

ORGANISM synthetic construct

other sequences; artificial sequences.

REFERENCE 1 (bases 1 to 18)

AUTHORS Teng,C.L. and Hardee,G.

TITLE Compositions and methods for the delivery of oligonucleotides via the alimentary canal

JOURNAL Patent: JP 2002510319-A 41 02-APR-2002;  
ISIS PHARMACEUTICALS INC

COMMENT OS Artificial Sequence  
PN JP 2002510319-A/41  
PD 02-APR-2002  
PF 01-JUL-1998 JP 1999507295  
PR 01-JUL-1997 US 08/886829  
PI CHING LEOU TENG,GREG HARDEE  
PC C12Q1/68,A61K9/127,A61K48/00,C07H21/04  
CC Description of Combined DNA/RNA Molecule:  
U at positions 8 and  
CC 11 are RNA  
CC Description of Artificial Sequence: Novel Sequence FH Key  
Location/Qualifiers.

FEATURES Location/Qualifiers  
source 1..18  
/organism="synthetic construct"  
/mol\_type="genomic DNA"  
/db\_xref="taxon:32630"

## ORIGIN

Query Match 81.0%; Score 17; DB 2; Length 18;  
Best Local Similarity 76.5%; Pred. No. 3.6e+02;  
Matches 13; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 5 GCGUGCCUCCUCACUGG 21  
|||:||||:|:||||:|  
Db 1 GCGTGCCTCCTCACTGG 17

## RESULT 10

AR208385  
LOCUS AR208385 18 bp DNA linear PAT 20-JUN-2002  
DEFINITION Sequence 1 from patent US 6383752.  
ACCESSION AR208385  
VERSION AR208385.1 GI:21509526  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unknown.  
Unclassified.

REFERENCE 1 (bases 1 to 18)

AUTHORS Agrawal,S. and Kandimalla,E.R.

TITLE Pseudo-cyclic oligonucleobases

JOURNAL Patent: US 6383752-A 1 07-MAY-2002;

FEATURES Location/Qualifiers  
source 1..18  
/organism="unknown"  
/mol\_type="unassigned DNA"

## ORIGIN

Query Match 81.0%; Score 17; DB 2; Length 18;  
Best Local Similarity 76.5%; Pred. No. 3.6e+02;  
Matches 13; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 5 GCGUGCCUCCUCACUGG 21  
|||:||||:|:||||:|



Db 1 GCGTGCCTCCTCACTGG 17

## RESULT 11

I49062

LOCUS I49062 18 bp DNA linear PAT 07-OCT-1997

DEFINITION Sequence 2 from patent US 5627158.

ACCESSION I49062

VERSION I49062.1 GI:2467525

KEYWORDS .

SOURCE Unknown.

ORGANISM Unknown.

Unclassified.

REFERENCE 1 (bases 1 to 18)

AUTHORS Cho-Chung, Y.S.

TITLE Antisense oligonucleotides of human regulatory subunit RI-.sub. .alpha. of camp dependent protein kinases for the treatment of cancer

JOURNAL Patent: US 5627158-A 2 06-MAY-1997;

FEATURES Location/Qualifiers

source 1. .18

/organism="unknown"

/mol\_type="unassigned DNA"

## ORIGIN

Query Match 81.0%; Score 17; DB 2; Length 18;

Best Local Similarity 76.5%; Pred. No. 3.6e+02;

Matches 13; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 5 GCGUGCCUCCUCACUGG 21

|||:||||:|:||||:|

Db 1 GCGTGCCTCCTCACTGG 17

## RESULT 12

I76423

LOCUS I76423 18 bp DNA linear PAT 03-APR-1998

DEFINITION Sequence 2 from patent US 5691317.

ACCESSION I76423

VERSION I76423.1 GI:3012577

KEYWORDS .

SOURCE Unknown.

ORGANISM Unknown.

Unclassified.

REFERENCE 1 (bases 1 to 18)

AUTHORS Cho-Chung, Y.S.

TITLE Antisense oligonucleotides of human regulatory subunit RI-alpha of cAMP dependent protein kinases for the treatment of cancer

JOURNAL Patent: US 5691317-A 2 25-NOV-1997;

FEATURES Location/Qualifiers

source 1. .18

/organism="unknown"

/mol\_type="unassigned DNA"

## ORIGIN

Query Match 81.0%; Score 17; DB 2; Length 18;

Best Local Similarity 76.5%; Pred. No. 3.6e+02;

Matches 13; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 5 GCGUGCCUCCUCACUGG 21

|||:||||:|:||||:|

Db 1 GCGTGCCTCCTCACTGG 17

# RESULT 13

AR430158

LOCUS AR430158 18 bp DNA linear PAT 18-DEC-2003

DEFINITION Sequence 20 from patent US 6645943.

ACCESSION AR430158

VERSION AR430158.1 GI:40190830

KEYWORDS

SOURCE Unknown.

ORGANISM Unknown.

Unclassified.

REFERENCE 1 (bases 1 to 18)

AUTHORS Agrawal,S., Diasio,R.B. and Zhang,R.

TITLE Method of down-regulating gene expression

JOURNAL Patent: US 6645943-A 20 11-NOV-2003;

Hybridon, Inc.; Cambridge, MA

FEATURES Location/Qualifiers

source 1..18

/organism="unknown"

/mol\_type="genomic DNA"

## ORIGIN

Query Match 81.0%; Score 17; DB 2; Length 18;

Best Local Similarity 76.5%; Pred. No. 3.6e+02;

Matches 13; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 5 GCGUGCCUCCUCACUGG 21

|||:|||:||:|||:|

Db 1 GCGTGCCTCCTCACTGG 17

# RESULT 14

AR577323

LOCUS AR577323 18 bp DNA linear PAT 14-DEC-2004

DEFINITION Sequence 39 from patent US 6777544.

ACCESSION AR577323

VERSION AR577323.1 GI:56579857

KEYWORDS

SOURCE Unknown.

ORGANISM Unknown.

Unclassified.

REFERENCE 1 (bases 1 to 18)

AUTHORS Uhlmann,E., Breipohl,G. and Will,D.W.

TITLE Polyamide nucleic acid derivatives and agents and processes for preparing them

JOURNAL Patent: US 6777544-A 39 17-AUG-2004;

Aventis Pharma Deutschland GmbH; Frankfurt;

DEX;

FEATURES Location/Qualifiers

source 1..18

/organism="unknown"

/mol\_type="genomic DNA"

## ORIGIN

Query Match 81.0%; Score 17; DB 2; Length 18;

Best Local Similarity 76.5%; Pred. No. 3.6e+02;

Matches 13; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 5 GCGUGCCUCCUCACUGG 21

||||:||||:||||:||  
Db 1 GCGTGCCTCCTCACTGG 17

## RESULT 15

AR653982

LOCUS AR653982 18 bp DNA linear PAT 13-JUN-2005

DEFINITION Sequence 39 from patent US 6887906.

ACCESSION AR653982

VERSION AR653982.1 GI:67584849

KEYWORDS

SOURCE Unknown.

ORGANISM Unknown.

Unclassified.

REFERENCE 1 (bases 1 to 18)

AUTHORS Teng, C.-L. and Hardee, G.

TITLE Compositions and methods for the delivery of oligonucleotides via the alimentary canal

JOURNAL Patent: US 6887906-A 39 03-MAY-2005;

ISIS Pharmaceuticals, Inc.; Carlsbad, CA

FEATURES Location/Qualifiers

source 1..18

/organism="unknown"

/mol\_type="genomic DNA"

## ORIGIN

Query Match 81.0%; Score 17; DB 2; Length 18;

Best Local Similarity 76.5%; Pred. No. 3.6e+02;

Matches 13; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 5 GCGUGCCUCCUCACUGG 21

||||:||||:||||:||

Db 1 GCGTGCCTCCTCACTGG 17

## RESULT 16

AR653983

LOCUS AR653983 18 bp DNA linear PAT 13-JUN-2005

DEFINITION Sequence 40 from patent US 6887906.

ACCESSION AR653983

VERSION AR653983.1 GI:67584852

KEYWORDS

SOURCE Unknown.

ORGANISM Unknown.

Unclassified.

REFERENCE 1 (bases 1 to 18)

AUTHORS Teng, C.-L. and Hardee, G.

TITLE Compositions and methods for the delivery of oligonucleotides via the alimentary canal

JOURNAL Patent: US 6887906-A 40 03-MAY-2005;

ISIS Pharmaceuticals, Inc.; Carlsbad, CA

FEATURES Location/Qualifiers

source 1..18

/organism="unknown"

/mol\_type="genomic DNA"

## ORIGIN

Query Match 81.0%; Score 17; DB 2; Length 18;

Best Local Similarity 76.5%; Pred. No. 3.6e+02;

Matches 13; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 5 GCGUGCCUCCUCACUGG 21  
|||:||||:|:||||:  
Db 1 GCGTGCCTCCTCACTGG 17

## RESULT 17

AR653984

LOCUS AR653984 18 bp DNA linear PAT 13-JUN-2005

DEFINITION Sequence 41 from patent US 6887906.

ACCESSION AR653984

VERSION AR653984.1 GI:67584853

KEYWORDS

SOURCE Unknown.

ORGANISM Unknown.

Unclassified.

REFERENCE 1 (bases 1 to 18)

AUTHORS Teng,C.-L. and Hardee,G.

TITLE Compositions and methods for the delivery of oligonucleotides via the alimentary canal

JOURNAL Patent: US 6887906-A 41 03-MAY-2005;  
ISIS Pharmaceuticals, Inc.; Carlsbad, CA

FEATURES Location/Qualifiers

source 1..18  
/organism="unknown"  
/mol\_type="genomic DNA"

## ORIGIN

Query Match 81.0%; Score 17; DB 2; Length 18;  
Best Local Similarity 76.5%; Pred. No. 3.6e+02;  
Matches 13; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 5 GCGUGCCUCCUCACUGG 21  
|||:||||:|:||||:  
Db 1 GCGTGCCTCCTCACTGG 17

## RESULT 18

AR680528

LOCUS AR680528 18 bp DNA linear PAT 12-SEP-2005

DEFINITION Sequence 39 from patent US 6905820.

ACCESSION AR680528

VERSION AR680528.1 GI:74462297

KEYWORDS

SOURCE Unknown.

ORGANISM Unknown.

Unclassified.

REFERENCE 1 (bases 1 to 18)

AUTHORS Uhlmann,E., Breipohl,G. and Will,D.W.

TITLE Polyamide nucleic acid derivatives, and agents and processes for preparing them

JOURNAL Patent: US 6905820-A 39 14-JUN-2005;  
Aventis Pharma Deutschland GmbH; Frankfurt;  
DEX;

FEATURES Location/Qualifiers

source 1..18  
/organism="unknown"  
/mol\_type="genomic DNA"

## ORIGIN

Query Match 81.0%; Score 17; DB 2; Length 18;  
Best Local Similarity 76.5%; Pred. No. 3.6e+02;

Matches 13; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 5 GCGUGCCUCCUCACUGG 21  
 |||:||||:|:||||:|  
 Db 1 GCGTGCCTCCTCACTGG 17

## RESULT 19

AR714221

LOCUS AR714221 18 bp DNA linear PAT 21-SEP-2005

DEFINITION Sequence 20 from patent US 6936593.

ACCESSION AR714221

VERSION AR714221.1 GI:76005571

KEYWORDS

SOURCE Unknown.

ORGANISM Unknown.

Unclassified.

REFERENCE 1 (bases 1 to 18)

AUTHORS Agrawal,S., Diasio,R.B. and Zhang,R.

TITLE Method of down-regulating gene expression

JOURNAL Patent: US 6936593-A 20 30-AUG-2005;

Hybridon, Inc.; Cambridge, MA

FEATURES Location/Qualifiers

source 1. .18

/organism="unknown"

/mol\_type="genomic DNA"

## ORIGIN

Query Match 81.0%; Score 17; DB 2; Length 18;

Best Local Similarity 76.5%; Pred. No. 3.6e+02;

Matches 13; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 5 GCGUGCCUCCUCACUGG 21  
 |||:||||:|:||||:|  
 Db 1 GCGTGCCTCCTCACTGG 17

## RESULT 20

AX030046

LOCUS AX030046 18 bp DNA linear PAT 16-SEP-2000

DEFINITION Sequence 2 from Patent EP0972831.

ACCESSION AX030046

VERSION AX030046.1 GI:10190268

KEYWORDS

SOURCE unidentified

ORGANISM unidentified

unclassified sequences.

REFERENCE 1

AUTHORS Yoon,S.C.

TITLE Antisense oligonucleotides against the alpha regulatory subunit of the camp dependent-protein kinase for treatment of cancer

JOURNAL Patent: EP 0972831-A 2 19-JAN-2000;

YOON S CHO CHUNG (US)

FEATURES Location/Qualifiers

source 1. .18

/organism="unidentified"

/mol\_type="unassigned DNA"

/db\_xref="taxon:32644"

/note="Antisense sequence corresponding to the 8th-13th codon for RI("

## ORIGIN

Query Match 81.0%; Score 17; DB 2; Length 18;  
 Best Local Similarity 76.5%; Pred. No. 3.6e+02;  
 Matches 13; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 5 GCGUGCCUCCUACUGG 21  
 |||:||||:|:||||:|  
 Db 1 GCGTGCCTCCTCACTGG 17

## RESULT 21

AX081371

LOCUS AX081371 18 bp DNA linear PAT 27-FEB-2001

DEFINITION Sequence 50 from Patent WO0108707.

ACCESSION AX081371

VERSION AX081371.1 GI:13170213

KEYWORDS

SOURCE synthetic construct

ORGANISM synthetic construct

other sequences; artificial sequences.

REFERENCE 1

AUTHORS Uhlmann,E., Greiner,B., Unger,E., Gothe,G. and Schwerdel,M.

TITLE Conjugates and methods for the production thereof, and their use  
for transporting molecules via biological membranesJOURNAL Patent: WO 0108707-A 50 08-FEB-2001;  
Aventis Pharma Deutschland GmbH (DE)

FEATURES

source

Location/Qualifiers

1. .18

/organism="synthetic construct"

/mol\_type="unassigned DNA"

/db\_xref="taxon:32630"

/note="Oligonucleotide"

ORIGIN

Query Match 81.0%; Score 17; DB 2; Length 18;  
 Best Local Similarity 76.5%; Pred. No. 3.6e+02;  
 Matches 13; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 5 GCGUGCCUCCUACUGG 21  
 |||:||||:|:||||:|  
 Db 1 GCGTGCCTCCTCACTGG 17

## RESULT 22

AX283201

LOCUS AX283201 18 bp DNA linear PAT 20-NOV-2001

DEFINITION Sequence 39 from Patent WO0179216.

ACCESSION AX283201

VERSION AX283201.1 GI:17044082

KEYWORDS

SOURCE synthetic construct

ORGANISM synthetic construct

other sequences; artificial sequences.

REFERENCE 1

AUTHORS Uhlmann,E., Breipohl,G. and Will,D.W.

TITLE Polyamide nucleic acid derivatives, agents and methods for  
producing themJOURNAL Patent: WO 0179216-A 39 25-OCT-2001;  
Aventis Pharma Deutschland GmbH (DE)

FEATURES

source

Location/Qualifiers

1. .18

```

/organism="synthetic construct"
/mol_type="unassigned DNA"
/db_xref="taxon:32630"
/note="Beschreibung der kuenstlichen
Sequenz:Oligonukleotide"

```

## ORIGIN

Query Match 81.0%; Score 17; DB 2; Length 18;  
 Best Local Similarity 76.5%; Pred. No. 3.6e+02;  
 Matches 13; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

```

Qy      5 GCGUGCCUCCUCACUGG 21
        |||:|||:||:|||:|
Db      1 GCGTGCCTCCTCACTGG 17

```

## RESULT 23

AX283269

LOCUS AX283269 18 bp DNA linear PAT 20-NOV-2001

DEFINITION Sequence 33 from Patent WO0179249.

ACCESSION AX283269

VERSION AX283269.1 GI:17044150

KEYWORDS .

SOURCE synthetic construct

ORGANISM synthetic construct

other sequences; artificial sequences.

REFERENCE 1

AUTHORS Uhlmann,E., Breipohl,G. and Will,D.W.

TITLE Polyamide nucleic acid derivatives, agents and methods for  
producing the same

JOURNAL Patent: WO 0179249-A 33 25-OCT-2001;

Aventis Pharma Deutschland GmbH (DE)

FEATURES

source

Location/Qualifiers

1. .18

/organism="synthetic construct"

/mol\_type="unassigned DNA"

/db\_xref="taxon:32630"

/note="Beschreibung der kuenstlichen Sequenz:

Oligonukleotide"

## ORIGIN

Query Match 81.0%; Score 17; DB 2; Length 18;  
 Best Local Similarity 76.5%; Pred. No. 3.6e+02;  
 Matches 13; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

```

Qy      5 GCGUGCCUCCUCACUGG 21
        |||:|||:||:|||:|
Db      1 GCGTGCCTCCTCACTGG 17

```

## RESULT 24

AR170389

LOCUS AR170389 20 bp DNA linear PAT 17-DEC-2001

DEFINITION Sequence 15 from patent US 6291438.

ACCESSION AR170389

VERSION AR170389.1 GI:17908348

KEYWORDS .

SOURCE Unknown.

ORGANISM Unknown.

Unclassified.

REFERENCE 1 (bases 1 to 20)

AUTHORS Wang, J.H.  
TITLE Antiviral anticancer poly-substituted phenyl derivatized  
oligoribonucleotides and methods for their use  
JOURNAL Patent: US 6291438-A 15 18-SEP-2001;  
FEATURES Location/Qualifiers  
source 1. .20  
/organism="unknown"  
/mol\_type="unassigned DNA"

## ORIGIN

Query Match 81.0%; Score 17; DB 2; Length 20;  
Best Local Similarity 76.5%; Pred. No. 3.5e+02;  
Matches 13; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 5 GCGUGCCUCCUCACUGG 21  
|||:|||:||:|||:|  
Db 3 GCGTGCCTCCTCACTGG 19

## RESULT 25

AR170392/c

LOCUS AR170392 20 bp DNA linear PAT 17-DEC-2001

DEFINITION Sequence 18 from patent US 6291438.

ACCESSION AR170392

VERSION AR170392.1 GI:17908351

KEYWORDS

SOURCE Unknown.

ORGANISM Unknown.

Unclassified.

REFERENCE 1 (bases 1 to 20)

AUTHORS Wang, J.H.

TITLE Antiviral anticancer poly-substituted phenyl derivatized  
oligoribonucleotides and methods for their use

JOURNAL Patent: US 6291438-A 18 18-SEP-2001;

FEATURES Location/Qualifiers

source 1. .20

/organism="unknown"

/mol\_type="unassigned DNA"

## ORIGIN

Query Match 81.0%; Score 17; DB 2; Length 20;  
Best Local Similarity 76.5%; Pred. No. 3.5e+02;  
Matches 13; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 5 GCGUGCCUCCUCACUGG 21  
|||:|||:||:|||:|  
Db 20 GCGTGCCTCCTCACTGG 4

## RESULT 26

AR208390

LOCUS AR208390 23 bp DNA linear PAT 20-JUN-2002

DEFINITION Sequence 6 from patent US 6383752.

ACCESSION AR208390

VERSION AR208390.1 GI:21509532

KEYWORDS

SOURCE Unknown.

ORGANISM Unknown.

Unclassified.

REFERENCE 1 (bases 1 to 23)

AUTHORS Agrawal, S. and Kandimalla, E.R.



TITLE Pseudo-cyclic oligonucleobases  
JOURNAL Patent: US 6383752-A 6 07-MAY-2002;  
FEATURES Location/Qualifiers  
source 1. .23  
/organism="unknown"  
/mol\_type="unassigned DNA"

## ORIGIN

Query Match 81.0%; Score 17; DB 2; Length 23;  
Best Local Similarity 76.5%; Pred. No. 3.5e+02;  
Matches 13; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 5 GCGUGCCUCCUCACUGG 21  
|||:||||:|:|:|  
Db 1 GCGTGCCTCCTCACTGG 17

## RESULT 27

AR208394  
LOCUS AR208394 23 bp DNA linear PAT 20-JUN-2002  
DEFINITION Sequence 10 from patent US 6383752.  
ACCESSION AR208394  
VERSION AR208394.1 GI:21509537  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unknown.  
Unclassified.  
REFERENCE 1 (bases 1 to 23)  
AUTHORS Agrawal,S. and Kandimalla,E.R.  
TITLE Pseudo-cyclic oligonucleobases  
JOURNAL Patent: US 6383752-A 10 07-MAY-2002;  
FEATURES Location/Qualifiers  
source 1. .23  
/organism="unknown"  
/mol\_type="unassigned DNA"

## ORIGIN

Query Match 81.0%; Score 17; DB 2; Length 23;  
Best Local Similarity 76.5%; Pred. No. 3.5e+02;  
Matches 13; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 5 GCGUGCCUCCUCACUGG 21  
|||:||||:|:|:|  
Db 1 GCGTGCCTCCTCACTGG 17

## RESULT 28

AR208388  
LOCUS AR208388 24 bp DNA linear PAT 20-JUN-2002  
DEFINITION Sequence 4 from patent US 6383752.  
ACCESSION AR208388  
VERSION AR208388.1 GI:21509529  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unknown.  
Unclassified.  
REFERENCE 1 (bases 1 to 24)  
AUTHORS Agrawal,S. and Kandimalla,E.R.  
TITLE Pseudo-cyclic oligonucleobases  
JOURNAL Patent: US 6383752-A 4 07-MAY-2002;  
FEATURES Location/Qualifiers

source 1. .24  
/organism="unknown"  
/mol\_type="unassigned DNA"

## ORIGIN

Query Match 81.0%; Score 17; DB 2; Length 24;  
Best Local Similarity 76.5%; Pred. No. 3.5e+02;  
Matches 13; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 5 GCGUGCCUCCUCACUGG 21  
|||:||||:|:|:|  
Db 1 GCGTGCCTCCTCACTGG 17

## RESULT 29

AR208391

LOCUS AR208391 24 bp DNA linear PAT 20-JUN-2002

DEFINITION Sequence 7 from patent US 6383752.

ACCESSION AR208391

VERSION AR208391.1 GI:21509533

KEYWORDS

SOURCE Unknown.

ORGANISM Unknown.

Unclassified.

REFERENCE 1 (bases 1 to 24)

AUTHORS Agrawal,S. and Kandimalla,E.R.

TITLE Pseudo-cyclic oligonucleobases

JOURNAL Patent: US 6383752-A 7 07-MAY-2002;

FEATURES Location/Qualifiers

source 1. .24

/organism="unknown"

/mol\_type="unassigned DNA"

## ORIGIN

Query Match 81.0%; Score 17; DB 2; Length 24;  
Best Local Similarity 76.5%; Pred. No. 3.5e+02;  
Matches 13; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 5 GCGUGCCUCCUCACUGG 21  
|||:||||:|:|:|  
Db 1 GCGTGCCTCCTCACTGG 17

## RESULT 30

AR208392

LOCUS AR208392 25 bp DNA linear PAT 20-JUN-2002

DEFINITION Sequence 8 from patent US 6383752.

ACCESSION AR208392

VERSION AR208392.1 GI:21509534

KEYWORDS

SOURCE Unknown.

ORGANISM Unknown.

Unclassified.

REFERENCE 1 (bases 1 to 25)

AUTHORS Agrawal,S. and Kandimalla,E.R.

TITLE Pseudo-cyclic oligonucleobases

JOURNAL Patent: US 6383752-A 8 07-MAY-2002;

FEATURES Location/Qualifiers

source 1. .25

/organism="unknown"

/mol\_type="unassigned DNA"

## ORIGIN

Query Match 81.0%; Score 17; DB 2; Length 25;  
Best Local Similarity 76.5%; Pred. No. 3.5e+02;  
Matches 13; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 5 GCGUGCCUCCUCACUGG 21  
|||:|||:||:|||:|  
Db 1 GCGTGCCTCCTCACTGG 17

## RESULT 31

AR208395

LOCUS AR208395 25 bp DNA linear PAT 20-JUN-2002

DEFINITION Sequence 11 from patent US 6383752.

ACCESSION AR208395

VERSION AR208395.1 GI:21509538

KEYWORDS

SOURCE Unknown.

ORGANISM Unknown.

Unclassified.

REFERENCE 1 (bases 1 to 25)

AUTHORS Agrawal,S. and Kandimalla,E.R.

TITLE Pseudo-cyclic oligonucleobases

JOURNAL Patent: US 6383752-A 11 07-MAY-2002;

FEATURES Location/Qualifiers

source 1. 25

/organism="unknown"

/mol\_type="unassigned DNA"

## ORIGIN

Query Match 81.0%; Score 17; DB 2; Length 25;  
Best Local Similarity 76.5%; Pred. No. 3.5e+02;  
Matches 13; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 5 GCGUGCCUCCUCACUGG 21  
|||:|||:||:|||:|  
Db 1 GCGTGCCTCCTCACTGG 17

## RESULT 32

AR208393

LOCUS AR208393 26 bp DNA linear PAT 20-JUN-2002

DEFINITION Sequence 9 from patent US 6383752.

ACCESSION AR208393

VERSION AR208393.1 GI:21509536

KEYWORDS

SOURCE Unknown.

ORGANISM Unknown.

Unclassified.

REFERENCE 1 (bases 1 to 26)

AUTHORS Agrawal,S. and Kandimalla,E.R.

TITLE Pseudo-cyclic oligonucleobases

JOURNAL Patent: US 6383752-A 9 07-MAY-2002;

FEATURES Location/Qualifiers

source 1. 26

/organism="unknown"

/mol\_type="unassigned DNA"

## ORIGIN

Query Match 81.0%; Score 17; DB 2; Length 26;

Best Local Similarity 76.5%; Pred. No. 3.5e+02;  
Matches 13; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 5 GCGUGCCUCCUCACUGG 21  
|||:|:|:|:|:|:|  
Db 1 GCGTGCCTCCTCACTGG 17

## RESULT 33

E13481

LOCUS E13481 25 bp DNA linear PAT 27-APR-1998

DEFINITION PCR primer for detecting mRNA which encode human enkephalin.

ACCESSION E13481

VERSION E13481.1 GI:3252286

KEYWORDS JP 1997187299-A/43.

SOURCE unidentified

ORGANISM unidentified

unclassified sequences.

REFERENCE 1 (bases 1 to 25)

AUTHORS Kimoto,Y.

TITLE PRIMER FOR PCR

JOURNAL Patent: JP 1997187299-A 43 22-JUL-1997;  
NIPPON BIO SERAPII KK

## COMMENT

OS None

OC Artificial sequences.

PN JP 1997187299-A/43

PD 22-JUL-1997

PF 05-JAN-1996 JP 1996027222

PI KIMOTO YASUHIKO

PC C12Q1/68,C07H21/04,C12N15/09;

CC strandedness: Single;

CC topology: Linear;

CC hypothetical: No;

CC anti-sense: No;

FH Key Location/Qualifiers

FH

FT source 1. .25

FT /organism='Artificial sequences' FT

misc\_feature 1. .25

FT /note='PCR primer, ENK-1'.

## FEATURES

Location/Qualifiers

source

1. .25

/organism="unidentified"

/mol\_type="genomic DNA"

/db\_xref="taxon:32644"

## ORIGIN

Query Match 73.3%; Score 15.4; DB 2; Length 25;

Best Local Similarity 70.6%; Pred. No. 3.1e+03;

Matches 12; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GGCUGCGUGCCUCCUCA 17  
|||:|:|:|:|:|:|  
Db 7 GGCTGCCTGCCTCCTCA 23

## RESULT 34

AR241029/c

LOCUS AR241029 20 bp DNA linear PAT 20-DEC-2002

DEFINITION Sequence 100 from patent US 6468795.

ACCESSION AR241029

VERSION AR241029.1 GI:27286246  
 KEYWORDS .  
 SOURCE Unknown.  
 ORGANISM Unknown.  
 Unclassified.  
 REFERENCE 1 (bases 1 to 20)  
 AUTHORS Watt,A.T.  
 TITLE Antisense modulation of Apaf-1 expression  
 JOURNAL Patent: US 6468795-A 100 22-OCT-2002;  
 ISIS Pharmaceuticals, Inc.; Carlsbad, CA;  
 WOX;

FEATURES Location/Qualifiers  
 source 1. .20  
 /organism="unknown"  
 /mol\_type="genomic DNA"

## ORIGIN

Query Match 70.5%; Score 14.8; DB 2; Length 20;  
 Best Local Similarity 61.1%; Pred. No. 7.2e+03;  
 Matches 11; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

Qy 3 CUGCGUGCCUCCUCACUG 20  
 |:| |:| |:| |:| |:| |:| |:| |:|  
 Db 19 CTGAGTGCCTCCTCAGTG 2

RESULT 35  
 BD187240/c

LOCUS BD187240 22 bp DNA linear PAT 17-JUN-2003

DEFINITION Novel ligand and its DNA.

ACCESSION BD187240

VERSION BD187240.1 GI:31879529

KEYWORDS WO 02102847-A/57.

SOURCE synthetic construct

ORGANISM synthetic construct  
 other sequences; artificial sequences.

REFERENCE 1 (bases 1 to 22)

AUTHORS Hinuma,S., Fujii,R., Fukusumi,S., Mori,M. and Yoshida,H.

TITLE Novel ligand and its DNA

JOURNAL Patent: WO 02102847-A 57 27-DEC-2002;  
 TAKEDA CHEMICAL INDUSTRIES LTD,SHUJI HINUMA,RYO FUJII, SHOJI  
 FUKUSUMI, MASA AKI MORI,HIROMI YOSHIDA

COMMENT OS Artificial Sequence

PN WO 02102847-A/57

PD 27-DEC-2002

PF 13-JUN-2002 WO 2002JP005915

PR 14-JUN-2001 JP 01P 180562,17-JUL-2001 JP 01P 216773 PR

26-NOV-2001 JP 01P 359826,28-DEC-2001 JP 01P 401019 PR

28-MAY-2002 JP 02P 154533

PI SHUJI HINUMA,RYO FUJII,SHOJI FUKUSUMI,MASA AKI MORI,HIROMI PI  
YOSHIDA

PC C07K14/47,C07K14/705,C12N15/12,C12N1/21,C12N1/19,C12N5/10, PC  
C12P21/02,

PC C07K16/18,C07K16/28,C12Q1/68,A61K38/17,A61K39/395,G01N33/53,

PC G01N33/577

CC Primer

FH Key Location/Qualifiers

FT source 1. .22

FT /organism='Artificial Sequence'.

FEATURES Location/Qualifiers

source 1. .22

/organism="synthetic construct"  
/mol\_type="genomic DNA"  
/db\_xref="taxon:32630"

## ORIGIN

Query Match 68.6%; Score 14.4; DB 2; Length 22;  
Best Local Similarity 68.8%; Pred. No. 1.2e+04;  
Matches 11; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GGCUGCGUGCCUCCUC 16  
|||:| |:|:|:|:|  
Db 17 GGCTGTGTGCCTCCTC 2

## RESULT 36

AR208389

LOCUS AR208389 23 bp DNA linear PAT 20-JUN-2002

DEFINITION Sequence 5 from patent US 6383752.

ACCESSION AR208389

VERSION AR208389.1 GI:21509531

KEYWORDS

SOURCE Unknown.

ORGANISM Unknown.

Unclassified.

REFERENCE 1 (bases 1 to 23)

AUTHORS Agrawal,S. and Kandimalla,E.R.

TITLE Pseudo-cyclic oligonucleobases

JOURNAL Patent: US 6383752-A 5 07-MAY-2002;

FEATURES Location/Qualifiers

source 1. .23

/organism="unknown"

/mol\_type="unassigned DNA"

## ORIGIN

Query Match 68.6%; Score 14.4; DB 2; Length 23;  
Best Local Similarity 75.0%; Pred. No. 1.2e+04;  
Matches 12; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

Qy 5 GCGUGCCUCCUCACUG 20  
|||:|:|:|:|:|  
Db 1 GCGTGCCTCCTCACGG 16

## RESULT 37

AR080884

LOCUS AR080884 18 bp DNA linear PAT 31-AUG-2000

DEFINITION Sequence 2 from patent US 5969117.

ACCESSION AR080884

VERSION AR080884.1 GI:10007613

KEYWORDS

SOURCE Unknown.

ORGANISM Unknown.

Unclassified.

REFERENCE 1 (bases 1 to 18)

AUTHORS Agrawal,S.

TITLE Modified protein kinase a-specific oligonucleotide

JOURNAL Patent: US 5969117-A 2 19-OCT-1999;

FEATURES Location/Qualifiers

source 1. .18

/organism="unknown"

/mol\_type="unassigned DNA"

## ORIGIN

Query Match 65.7%; Score 13.8; DB 2; Length 18;  
Best Local Similarity 70.6%; Pred. No. 2.8e+04;  
Matches 12; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

Qy 5 GCGUGCCUCCUCACUGG 21  
||| |||:|:| |:|  
Db 1 GCGCGCCTCCTCGCTGG 17

## RESULT 38

AR080887

LOCUS AR080887 18 bp DNA linear PAT 31-AUG-2000

DEFINITION Sequence 5 from patent US 5969117.

ACCESSION AR080887

VERSION AR080887.1 GI:10007616

KEYWORDS

SOURCE Unknown.

ORGANISM Unknown.

Unclassified.

REFERENCE 1 (bases 1 to 18)

AUTHORS Agrawal,S.

TITLE Modified protein kinase a-specific oligonucleotide

JOURNAL Patent: US 5969117-A 5 19-OCT-1999;

FEATURES Location/Qualifiers

source 1. .18

/organism="unknown"

/mol\_type="unassigned DNA"

## ORIGIN

Query Match 65.7%; Score 13.8; DB 2; Length 18;  
Best Local Similarity 70.6%; Pred. No. 2.8e+04;  
Matches 12; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

Qy 5 GCGUGCCUCCUCACUGG 21  
||| |||:|:| |:|  
Db 1 GCGCGCCTCCTCGCTGG 17

## RESULT 39

AR080889

LOCUS AR080889 18 bp DNA linear PAT 31-AUG-2000

DEFINITION Sequence 7 from patent US 5969117.

ACCESSION AR080889

VERSION AR080889.1 GI:10007618

KEYWORDS

SOURCE Unknown.

ORGANISM Unknown.

Unclassified.

REFERENCE 1 (bases 1 to 18)

AUTHORS Agrawal,S.

TITLE Modified protein kinase a-specific oligonucleotide

JOURNAL Patent: US 5969117-A 7 19-OCT-1999;

FEATURES Location/Qualifiers

source 1. .18

/organism="unknown"

/mol\_type="unassigned DNA"

## ORIGIN

Query Match 65.7%; Score 13.8; DB 2; Length 18;

Best Local Similarity 70.6%; Pred. No. 2.8e+04;  
Matches 12; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

Qy 5 GCGUGCCUCCUCACUGG 21  
||| |||:|:| |:|  
Db 1 GCGCGCCTCCTCGCTGG 17

## RESULT 40

BD107650

LOCUS BD107650 18 bp DNA linear PAT 18-SEP-2002

DEFINITION Modified protein kinase A-specific oligonucleotides and methods of their use.

ACCESSION BD107650

VERSION BD107650.1 GI:23202468

KEYWORDS JP 2002501370-A/2.

SOURCE unidentified

ORGANISM unidentified

unclassified sequences.

REFERENCE 1 (bases 1 to 18)

AUTHORS Agrawal, S.

TITLE Modified protein kinase A-specific oligonucleotides and methods of their use

JOURNAL Patent: JP 2002501370-A 2 15-JAN-2002;

HYBRIDON INC

COMMENT OS Unidentified

PN JP 2002501370-A/2

PD 15-JAN-2002

PF 12-FEB-1998 JP 1998539567

PR 12-MAR-1997 US 60/040740

PI SUDHIR AGRAWAL

PC C12N15/11,A61K31/70,C07H21/04

CC Strandedness: Single;

CC Topology: Linear;

CC Modified protein kinase A-specific oligonucleotides and methods of their use

CC use

FH Key Location/Qualifiers

FT source 1. .18

FT /organism='Unidentified'.

FEATURES Location/Qualifiers

source 1. .18

/organism="unidentified"

/mol\_type="genomic DNA"

/db\_xref="taxon:32644"

## ORIGIN

Query Match 65.7%; Score 13.8; DB 2; Length 18;

Best Local Similarity 70.6%; Pred. No. 2.8e+04;

Matches 12; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

Qy 5 GCGUGCCUCCUCACUGG 21  
||| |||:|:| |:|  
Db 1 GCGCGCCTCCTCGCTGG 17

Search completed: November 20, 2006, 06:30:13

Job time : 2036 secs



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OM nucleic - nucleic search, using sw model

Run on: November 20, 2006, 05:50:09 ; Search time 98 Seconds  
(without alignments)  
400.952 Million cell updates/sec

Title: US-10-728-491-1  
Perfect score: 21  
Sequence: 1 ggcugcgugccuccucacugg 21

Scoring table: IDENTITY\_NUC  
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Maximum Match 100%  
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10: /EMC\_Celerra\_SIDS3/ptodata/2/ina/backfiles1.seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
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1	17	81.0	18	2	US-07-702-163B-2	Sequence 2, Appli
2	17	81.0	18	2	US-08-060-984-2	Sequence 2, Appli
3	17	81.0	18	2	US-08-383-742-2	Sequence 2, Appli
4	17	81.0	18	2	US-08-532-979-1	Sequence 1, Appli
5	17	81.0	18	2	US-08-532-979-4	Sequence 4, Appli
6	17	81.0	18	2	US-08-532-979-6	Sequence 6, Appli
7	17	81.0	18	3	US-09-540-699-1	Sequence 1, Appli
8	17	81.0	18	3	US-09-587-934B-20	Sequence 20, Appl
9	17	81.0	18	3	US-09-321-249-20	Sequence 20, Appl
10	17	81.0	18	3	US-09-835-370-39	Sequence 39, Appl
11	17	81.0	18	3	US-09-108-673A-39	Sequence 39, Appl
12	17	81.0	18	3	US-09-108-673A-40	Sequence 40, Appl
13	17	81.0	18	3	US-09-108-673A-41	Sequence 41, Appl
14	17	81.0	18	3	US-09-835-371-39	Sequence 39, Appl
15	17	81.0	18	3	US-09-777-526A-20	Sequence 20, Appl
16	17	81.0	20	3	US-09-167-375-15	Sequence 15, Appl
c 17	17	81.0	20	3	US-09-167-375-18	Sequence 18, Appl
18	17	81.0	23	3	US-09-540-699-6	Sequence 6, Appli
19	17	81.0	23	3	US-09-540-699-10	Sequence 10, Appl
20	17	81.0	24	3	US-09-540-699-4	Sequence 4, Appli
21	17	81.0	24	3	US-09-540-699-7	Sequence 7, Appli
22	17	81.0	25	3	US-09-540-699-8	Sequence 8, Appli
23	17	81.0	25	3	US-09-540-699-11	Sequence 11, Appl
24	17	81.0	26	3	US-09-540-699-9	Sequence 9, Appli
c 25	14.8	70.5	20	3	US-09-690-364-100	Sequence 100, App
26	14.8	70.5	25	3	US-09-396-196G-40930	Sequence 40930, A
27	14.4	68.6	23	3	US-09-540-699-5	Sequence 5, Appli
28	14.4	68.6	25	3	US-09-396-196G-110880	Sequence 110880,
29	14.4	68.6	25	3	US-09-396-196G-110881	Sequence 110881,
30	13.8	65.7	18	2	US-08-532-979-2	Sequence 2, Appli
31	13.8	65.7	18	2	US-08-532-979-5	Sequence 5, Appli
32	13.8	65.7	18	2	US-08-532-979-7	Sequence 7, Appli
c 33	13.6	64.8	23	3	US-09-896-594-4	Sequence 4, Appli
c 34	13.6	64.8	23	3	US-09-896-594-8	Sequence 8, Appli
c 35	13.4	63.8	25	3	US-09-396-196G-40807	Sequence 40807, A
c 36	13.2	62.9	25	3	US-09-396-196G-15028	Sequence 15028, A
37	13.2	62.9	30	3	US-09-302-357-51	Sequence 51, Appl
38	13.2	62.9	30	3	US-09-697-719-51	Sequence 51, Appl
c 39	13	61.9	24	3	US-10-196-000-5	Sequence 5, Appli
c 40	13	61.9	25	3	US-09-396-196G-36692	Sequence 36692, A
41	13	61.9	26	2	US-08-277-857-8	Sequence 8, Appli
42	13	61.9	26	2	US-08-277-857-33	Sequence 33, Appl
c 43	13	61.9	26	2	US-08-277-857-59	Sequence 59, Appl
c 44	13	61.9	26	2	US-08-277-857-84	Sequence 84, Appl
45	13	61.9	26	3	US-09-108-673A-93	Sequence 93, Appl
46	13	61.9	26	7	PCT-US95-09080-8	Sequence 8, Appli
47	13	61.9	26	7	PCT-US95-09080-33	Sequence 33, Appl
c 48	13	61.9	26	7	PCT-US95-09080-59	Sequence 59, Appl
c 49	13	61.9	26	7	PCT-US95-09080-84	Sequence 84, Appl
c 50	13	61.9	29	3	US-10-012-070A-20	Sequence 20, Appl
51	12.8	61.0	25	3	US-09-396-196G-125612	Sequence 125612,
52	12.6	60.0	21	3	US-08-949-344C-18	Sequence 18, Appl
c 53	12.6	60.0	21	3	US-09-344-510B-14	Sequence 14, Appl
54	12.6	60.0	22	3	US-08-564-496C-33	Sequence 33, Appl
55	12.6	60.0	22	3	US-09-506-859-33	Sequence 33, Appl
56	12.6	60.0	22	7	PCT-US95-15428-33	Sequence 33, Appl
c 57	12.6	60.0	25	3	US-09-866-108A-3430	Sequence 3430, Ap
c 58	12.6	60.0	25	3	US-09-866-108A-3431	Sequence 3431, Ap
c 59	12.6	60.0	25	3	US-09-866-108A-3432	Sequence 3432, Ap
c 60	12.6	60.0	25	3	US-09-866-108A-3433	Sequence 3433, Ap
c 61	12.6	60.0	25	3	US-09-866-108A-3434	Sequence 3434, Ap

c	62	12.6	60.0	25	3	US-09-866-108A-3435	Sequence 3435, Ap
c	63	12.6	60.0	25	3	US-09-866-108A-3436	Sequence 3436, Ap
	64	12.6	60.0	25	3	US-09-396-196G-88970	Sequence 88970, A
	65	12.6	60.0	25	3	US-09-396-196G-127144	Sequence 127144,
c	66	12.6	60.0	27	3	US-08-584-040-7128	Sequence 7128, Ap
	67	12.4	59.0	25	3	US-09-396-196G-2390	Sequence 2390, Ap
	68	12.4	59.0	25	3	US-09-396-196G-4745	Sequence 4745, Ap
c	69	12.4	59.0	25	3	US-09-396-196G-124366	Sequence 124366,
c	70	12.4	59.0	25	3	US-09-396-196G-124367	Sequence 124367,
c	71	12.4	59.0	25	3	US-09-396-196G-124368	Sequence 124368,
c	72	12.4	59.0	25	3	US-09-396-196G-124383	Sequence 124383,
	73	12.2	58.1	19	3	US-08-294-312B-12	Sequence 12, Appl
	74	12.2	58.1	19	3	US-08-468-024B-12	Sequence 12, Appl
	75	12.2	58.1	19	3	US-08-187-757D-10	Sequence 10, Appl
	76	12.2	58.1	19	3	US-08-465-679-12	Sequence 12, Appl
	77	12.2	58.1	19	3	US-08-210-143C-10	Sequence 10, Appl
	78	12.2	58.1	20	3	US-09-344-914-12	Sequence 12, Appl
	79	12.2	58.1	20	3	US-09-344-914-13	Sequence 13, Appl
c	80	12.2	58.1	25	3	US-09-268-544B-11	Sequence 11, Appl
	81	12.2	58.1	25	3	US-09-396-196G-80105	Sequence 80105, A
	82	12.2	58.1	25	3	US-09-396-196G-105532	Sequence 105532,
c	83	12.2	58.1	25	3	US-09-396-196G-122293	Sequence 122293,
c	84	12.2	58.1	25	3	US-09-396-196G-122294	Sequence 122294,
c	85	12.2	58.1	25	3	US-09-950-902-6	Sequence 6, Appli
	86	12.2	58.1	29	2	US-08-384-708A-20	Sequence 20, Appl
	87	12.2	58.1	29	3	US-08-687-421-20	Sequence 20, Appl
	88	12.2	58.1	29	3	US-08-442-423-20	Sequence 20, Appl
c	89	12.2	58.1	29	3	US-09-735-271-1783	Sequence 1783, Ap
c	90	12	57.1	20	3	US-09-081-385-120	Sequence 120, App
	91	12	57.1	20	3	US-09-050-516-38	Sequence 38, Appl
	92	12	57.1	20	3	US-10-278-547-38	Sequence 38, Appl
c	93	12	57.1	20	3	US-09-752-639-120	Sequence 120, App
c	94	12	57.1	20	3	US-09-712-813-120	Sequence 120, App
c	95	12	57.1	20	3	US-09-700-354A-120	Sequence 120, App
c	96	12	57.1	21	2	US-08-318-837-36	Sequence 36, Appl
	97	12	57.1	24	3	US-08-934-386-45	Sequence 45, Appl
	98	12	57.1	24	3	US-08-934-386-62	Sequence 62, Appl
	99	12	57.1	25	2	US-08-095-728B-10	Sequence 10, Appl
c	100	12	57.1	25	2	US-08-318-837-45	Sequence 45, Appl
	101	12	57.1	25	3	US-08-469-260A-111	Sequence 111, App
	102	12	57.1	25	3	US-08-488-446-111	Sequence 111, App
	103	12	57.1	25	3	US-08-467-344A-111	Sequence 111, App
	104	12	57.1	25	3	US-08-424-550B-111	Sequence 111, App
	105	12	57.1	25	3	US-09-396-196G-18824	Sequence 18824, A
c	106	12	57.1	25	3	US-09-396-196G-36691	Sequence 36691, A
c	107	12	57.1	25	3	US-09-396-196G-37609	Sequence 37609, A
c	108	12	57.1	25	3	US-09-396-196G-50995	Sequence 50995, A
c	109	12	57.1	25	3	US-09-396-196G-83738	Sequence 83738, A
c	110	12	57.1	25	3	US-09-396-196G-112147	Sequence 112147,
c	111	12	57.1	25	3	US-09-396-196G-116370	Sequence 116370,
c	112	12	57.1	27	2	US-08-758-306-374	Sequence 374, App
c	113	12	57.1	30	2	US-08-779-113-60	Sequence 60, Appl
c	114	12	57.1	30	3	US-10-232-858-32	Sequence 32, Appl
	115	12	57.1	30	3	US-10-232-858-33	Sequence 33, Appl
c	116	12	57.1	30	3	US-09-338-063A-32	Sequence 32, Appl
	117	12	57.1	30	3	US-09-338-063A-33	Sequence 33, Appl
c	118	11.8	56.2	19	3	US-09-402-690-15	Sequence 15, Appl
c	119	11.8	56.2	20	3	US-09-402-690-9	Sequence 9, Appli
c	120	11.8	56.2	20	3	US-09-402-690-19	Sequence 19, Appl
	121	11.8	56.2	20	3	US-09-975-123-41	Sequence 41, Appl
	122	11.8	56.2	21	3	US-09-422-978-9808	Sequence 9808, Ap

c 123	11.8	56.2	22	3	US-08-801-154-4	Sequence 4, Appli
c 124	11.8	56.2	22	3	US-08-873-709-13	Sequence 13, Appl
c 125	11.8	56.2	22	3	US-09-437-034B-8	Sequence 8, Appli
c 126	11.8	56.2	22	3	US-09-255-464B-9	Sequence 9, Appli
c 127	11.8	56.2	23	3	US-09-448-256-8	Sequence 8, Appli
c 128	11.8	56.2	23	3	US-09-928-463A-8	Sequence 8, Appli
c 129	11.8	56.2	25	3	US-08-801-154-6	Sequence 6, Appli
c 130	11.8	56.2	25	3	US-08-873-709-15	Sequence 15, Appl
c 131	11.8	56.2	25	3	US-09-437-034B-10	Sequence 10, Appl
c 132	11.8	56.2	25	3	US-09-255-464B-11	Sequence 11, Appl
c 133	11.8	56.2	25	3	US-09-396-196G-108487	Sequence 108487,
c 134	11.8	56.2	25	3	US-09-396-196G-122292	Sequence 122292,
c 135	11.8	56.2	26	3	US-08-801-154-5	Sequence 5, Appli
c 136	11.8	56.2	26	3	US-08-873-709-14	Sequence 14, Appl
c 137	11.8	56.2	26	3	US-09-437-034B-9	Sequence 9, Appli
c 138	11.8	56.2	26	3	US-09-255-464B-10	Sequence 10, Appl
c 139	11.8	56.2	29	3	US-09-304-232-15	Sequence 15, Appl
c 140	11.6	55.2	18	3	US-09-167-109-117	Sequence 117, App
c 141	11.6	55.2	20	2	US-08-117-952-537	Sequence 537, App
c 142	11.6	55.2	20	2	US-08-651-692-39	Sequence 39, Appl
c 143	11.6	55.2	20	3	US-08-464-582-2	Sequence 2, Appli
c 144	11.6	55.2	20	3	US-08-462-513-2	Sequence 2, Appli
c 145	11.6	55.2	20	3	US-09-630-155-7	Sequence 7, Appli
c 146	11.6	55.2	20	3	US-08-031-801-2	Sequence 2, Appli
c 147	11.6	55.2	21	3	US-09-422-978-8195	Sequence 8195, Ap
c 148	11.6	55.2	22	3	US-09-142-623-23	Sequence 23, Appl
c 149	11.6	55.2	22	3	US-09-508-264A-8	Sequence 8, Appli
c 150	11.6	55.2	25	3	US-09-866-108A-3429	Sequence 3429, Ap
c 151	11.6	55.2	25	3	US-09-866-108A-3437	Sequence 3437, Ap
c 152	11.6	55.2	25	3	US-09-396-196G-23287	Sequence 23287, A
c 153	11.6	55.2	25	3	US-09-396-196G-23288	Sequence 23288, A
c 154	11.6	55.2	25	3	US-09-396-196G-35053	Sequence 35053, A
c 155	11.6	55.2	25	3	US-09-396-196G-41610	Sequence 41610, A
c 156	11.6	55.2	25	3	US-09-396-196G-60927	Sequence 60927, A
c 157	11.6	55.2	25	3	US-09-396-196G-67597	Sequence 67597, A
c 158	11.6	55.2	25	3	US-09-396-196G-67598	Sequence 67598, A
c 159	11.6	55.2	25	3	US-09-396-196G-68231	Sequence 68231, A
c 160	11.6	55.2	25	3	US-09-396-196G-68758	Sequence 68758, A
c 161	11.6	55.2	25	3	US-09-396-196G-68759	Sequence 68759, A
c 162	11.6	55.2	25	3	US-09-396-196G-88731	Sequence 88731, A
c 163	11.6	55.2	25	3	US-09-396-196G-88732	Sequence 88732, A
c 164	11.6	55.2	27	3	US-08-985-162-1467	Sequence 1467, Ap
c 165	11.6	55.2	27	3	US-09-401-063-1467	Sequence 1467, Ap
c 166	11.6	55.2	30	3	US-08-513-974B-135	Sequence 135, App
c 167	11.6	55.2	30	3	US-09-504-358-43	Sequence 43, Appl
c 168	11.6	55.2	30	3	US-09-052-919-35	Sequence 35, Appl
c 169	11.6	55.2	30	3	US-09-954-314-43	Sequence 43, Appl
c 170	11.6	55.2	30	3	US-09-302-357-52	Sequence 52, Appl
c 171	11.6	55.2	30	3	US-09-953-052-35	Sequence 35, Appl
c 172	11.6	55.2	30	3	US-10-230-562-43	Sequence 43, Appl
c 173	11.6	55.2	30	3	US-09-697-719-52	Sequence 52, Appl
c 174	11.4	54.3	18	2	US-09-161-015-10	Sequence 10, Appl
c 175	11.4	54.3	18	3	US-09-387-341-153	Sequence 153, App
c 176	11.4	54.3	20	3	US-09-344-914-8	Sequence 8, Appli
c 177	11.4	54.3	20	3	US-09-344-914-9	Sequence 9, Appli
c 178	11.4	54.3	20	3	US-09-344-914-10	Sequence 10, Appl
c 179	11.4	54.3	20	3	US-09-344-914-11	Sequence 11, Appl
c 180	11.4	54.3	20	3	US-08-853-980-4	Sequence 4, Appli
c 181	11.4	54.3	20	3	US-09-487-368A-221	Sequence 221, App
c 182	11.4	54.3	20	3	US-09-629-644A-221	Sequence 221, App
c 183	11.4	54.3	20	3	US-09-629-644A-221	Sequence 221, App

c 184	11.4	54.3	22	3	US-08-188-275A-10	Sequence 10, Appl
185	11.4	54.3	23	3	US-09-097-199-6	Sequence 6, Appli
c 186	11.4	54.3	24	3	US-09-021-660A-18	Sequence 18, Appl
187	11.4	54.3	24	3	US-09-991-181-526	Sequence 526, App
188	11.4	54.3	24	3	US-09-990-444-526	Sequence 526, App
189	11.4	54.3	24	3	US-09-997-333-526	Sequence 526, App
190	11.4	54.3	24	3	US-09-992-598-526	Sequence 526, App
191	11.4	54.3	24	4	US-09-989-735-526	Sequence 526, App
192	11.4	54.3	24	5	US-09-989-726-526	Sequence 526, App
193	11.4	54.3	24	5	US-09-997-514-526	Sequence 526, App
194	11.4	54.3	24	5	US-09-989-728-526	Sequence 526, App
195	11.4	54.3	24	5	US-09-997-349-526	Sequence 526, App
196	11.4	54.3	24	5	US-09-997-653-526	Sequence 526, App
197	11.4	54.3	24	5	US-09-989-293A-526	Sequence 526, App
198	11.4	54.3	25	3	US-09-396-196G-8646	Sequence 8646, Ap
c 199	11.4	54.3	25	3	US-09-396-196G-12760	Sequence 12760, A
c 200	11.4	54.3	25	3	US-09-396-196G-16082	Sequence 16082, A
c 201	11.4	54.3	25	3	US-09-396-196G-24915	Sequence 24915, A
c 202	11.4	54.3	25	3	US-09-396-196G-37732	Sequence 37732, A
c 203	11.4	54.3	25	3	US-09-396-196G-53722	Sequence 53722, A
c 204	11.4	54.3	25	3	US-09-396-196G-55101	Sequence 55101, A
c 205	11.4	54.3	25	3	US-09-396-196G-87492	Sequence 87492, A
206	11.4	54.3	25	3	US-09-396-196G-111068	Sequence 111068,
207	11.4	54.3	25	3	US-09-396-196G-111069	Sequence 111069,
208	11.4	54.3	25	3	US-09-396-196G-111818	Sequence 111818,
209	11.4	54.3	25	3	US-09-396-196G-111819	Sequence 111819,
210	11.4	54.3	25	3	US-09-396-196G-111820	Sequence 111820,
c 211	11.4	54.3	25	3	US-09-999-833A-174	Sequence 174, App
c 212	11.4	54.3	25	3	US-10-020-445A-174	Sequence 174, App
c 213	11.4	54.3	25	4	US-09-978-189-174	Sequence 174, App
c 214	11.4	54.3	25	4	US-10-017-085A-174	Sequence 174, App
c 215	11.4	54.3	25	5	US-10-145-129A-174	Sequence 174, App
c 216	11.4	54.3	25	5	US-10-013-929A-174	Sequence 174, App
c 217	11.4	54.3	25	5	US-10-013-917A-174	Sequence 174, App
c 218	11.4	54.3	29	3	US-09-727-739B-51	Sequence 51, Appl
c 219	11.4	54.3	29	3	US-10-126-279-41	Sequence 41, Appl
c 220	11.4	54.3	29	3	US-10-286-606-41	Sequence 41, Appl
c 221	11.4	54.3	29	4	US-10-891-383A-41	Sequence 41, Appl
c 222	11.4	54.3	30	2	US-08-859-998-227	Sequence 227, App
c 223	11.4	54.3	30	3	US-09-014-416-22	Sequence 22, Appl
c 224	11.4	54.3	30	3	US-09-225-928-227	Sequence 227, App
c 225	11.4	54.3	30	3	US-09-163-507-6	Sequence 6, Appli
c 226	11.4	54.3	30	3	US-09-225-201B-227	Sequence 227, App
227	11.2	53.3	16	2	US-08-585-888-15	Sequence 15, Appl
228	11.2	53.3	16	3	US-09-195-991-15	Sequence 15, Appl
c 229	11.2	53.3	17	3	US-09-866-108A-501	Sequence 501, App
c 230	11.2	53.3	17	3	US-09-866-108A-502	Sequence 502, App
c 231	11.2	53.3	17	3	US-09-866-108A-6377	Sequence 6377, Ap
c 232	11.2	53.3	17	3	US-09-866-108A-6378	Sequence 6378, Ap
c 233	11.2	53.3	17	5	US-10-156-306B-5846	Sequence 5846, Ap
c 234	11.2	53.3	18	3	US-09-950-920-7	Sequence 7, Appli
235	11.2	53.3	19	2	US-08-585-888-17	Sequence 17, Appl
236	11.2	53.3	19	3	US-09-195-991-17	Sequence 17, Appl
237	11.2	53.3	20	2	US-07-889-651-2	Sequence 2, Appli
238	11.2	53.3	20	2	US-08-379-072A-1	Sequence 1, Appli
239	11.2	53.3	20	2	US-08-478-039-111	Sequence 111, App
240	11.2	53.3	20	2	US-08-481-869-1	Sequence 1, Appli
241	11.2	53.3	20	2	US-08-476-349A-111	Sequence 111, App
242	11.2	53.3	20	3	US-08-803-085-28	Sequence 28, Appl
243	11.2	53.3	20	3	US-09-416-756A-6	Sequence 6, Appli
244	11.2	53.3	20	3	US-09-661-753-31	Sequence 31, Appl

c 245	11.2	53.3	20	3	US-08-626-285-4	Sequence 4, Appli
246	11.2	53.3	20	3	US-10-027-983-86	Sequence 86, Appl
247	11.2	53.3	20	3	US-09-680-310-8	Sequence 8, Appli
248	11.2	53.3	20	3	US-09-019-441A-32	Sequence 32, Appl
249	11.2	53.3	20	3	US-10-209-405-19	Sequence 19, Appl
c 250	11.2	53.3	20	3	US-10-209-405-91	Sequence 91, Appl
251	11.2	53.3	20	5	US-09-292-053A-28	Sequence 28, Appl
252	11.2	53.3	21	3	US-09-422-978-10793	Sequence 10793, A
c 253	11.2	53.3	22	2	US-08-379-078-587	Sequence 587, App
254	11.2	53.3	22	3	US-09-101-886B-8	Sequence 8, Appli
c 255	11.2	53.3	22	3	US-07-974-409C-210	Sequence 210, App
c 256	11.2	53.3	22	7	PCT-US93-00977-210	Sequence 210, App
c 257	11.2	53.3	24	3	US-10-000-467-6	Sequence 6, Appli
258	11.2	53.3	25	3	US-09-455-679-21	Sequence 21, Appl
c 259	11.2	53.3	25	3	US-09-866-108A-3438	Sequence 3438, Ap
c 260	11.2	53.3	25	3	US-09-866-108A-3439	Sequence 3439, Ap
c 261	11.2	53.3	25	3	US-09-866-108A-11269	Sequence 11269, A
c 262	11.2	53.3	25	3	US-09-866-108A-11270	Sequence 11270, A
c 263	11.2	53.3	25	3	US-09-866-108A-11271	Sequence 11271, A
c 264	11.2	53.3	25	3	US-09-866-108A-11272	Sequence 11272, A
c 265	11.2	53.3	25	3	US-09-866-108A-11273	Sequence 11273, A
c 266	11.2	53.3	25	3	US-09-866-108A-11274	Sequence 11274, A
c 267	11.2	53.3	25	3	US-09-866-108A-11275	Sequence 11275, A
c 268	11.2	53.3	25	3	US-09-866-108A-11276	Sequence 11276, A
c 269	11.2	53.3	25	3	US-09-866-108A-11277	Sequence 11277, A
c 270	11.2	53.3	25	3	US-09-866-108A-11278	Sequence 11278, A
c 271	11.2	53.3	25	3	US-09-396-196G-143	Sequence 143, App
272	11.2	53.3	25	3	US-09-396-196G-6545	Sequence 6545, Ap
c 273	11.2	53.3	25	3	US-09-396-196G-16347	Sequence 16347, A
274	11.2	53.3	25	3	US-09-396-196G-26397	Sequence 26397, A
275	11.2	53.3	25	3	US-09-396-196G-29775	Sequence 29775, A
c 276	11.2	53.3	25	3	US-09-396-196G-32496	Sequence 32496, A
c 277	11.2	53.3	25	3	US-09-396-196G-51783	Sequence 51783, A
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c 279	11.2	53.3	25	3	US-09-396-196G-71634	Sequence 71634, A
c 280	11.2	53.3	25	3	US-09-396-196G-71635	Sequence 71635, A
c 281	11.2	53.3	25	3	US-09-396-196G-74586	Sequence 74586, A
282	11.2	53.3	25	3	US-09-396-196G-76002	Sequence 76002, A
c 283	11.2	53.3	25	3	US-09-396-196G-76019	Sequence 76019, A
c 284	11.2	53.3	25	3	US-09-396-196G-76020	Sequence 76020, A
c 285	11.2	53.3	25	3	US-09-396-196G-76021	Sequence 76021, A
c 286	11.2	53.3	25	3	US-09-396-196G-76022	Sequence 76022, A
c 287	11.2	53.3	25	3	US-09-396-196G-76023	Sequence 76023, A
c 288	11.2	53.3	25	3	US-09-396-196G-76024	Sequence 76024, A
c 289	11.2	53.3	25	3	US-09-396-196G-76035	Sequence 76035, A
290	11.2	53.3	25	3	US-09-396-196G-87119	Sequence 87119, A
291	11.2	53.3	25	3	US-09-396-196G-91794	Sequence 91794, A
292	11.2	53.3	25	3	US-09-396-196G-91795	Sequence 91795, A
293	11.2	53.3	25	3	US-09-396-196G-107551	Sequence 107551,
294	11.2	53.3	25	3	US-09-396-196G-107552	Sequence 107552,
c 295	11.2	53.3	27	3	US-09-253-396A-41	Sequence 41, Appl
c 296	11.2	53.3	30	2	US-07-931-473B-30	Sequence 30, Appl
c 297	11.2	53.3	30	2	US-07-714-131C-30	Sequence 30, Appl
298	11.2	53.3	30	2	US-08-215-749A-1	Sequence 1, Appli
c 299	11.2	53.3	30	2	US-08-412-110-30	Sequence 30, Appl
c 300	11.2	53.3	30	2	US-08-409-442A-30	Sequence 30, Appl
c 301	11.2	53.3	30	2	US-08-469-609A-30	Sequence 30, Appl
c 302	11.2	53.3	30	3	US-09-143-190-30	Sequence 30, Appl
303	11.2	53.3	30	3	US-09-230-222-18	Sequence 18, Appl
c 304	11.2	53.3	30	3	US-09-502-344-30	Sequence 30, Appl
305	11.2	53.3	30	3	US-09-230-225B-25	Sequence 25, Appl

306	11.2	53.3	30	3	US-10-014-055-17	Sequence 17, Appl
307	11.2	53.3	30	3	US-10-028-051A-17	Sequence 17, Appl
c 308	11.2	53.3	30	3	US-10-037-986-30	Sequence 30, Appl
309	11.2	53.3	30	5	US-09-958-359-14	Sequence 14, Appl
310	11	52.4	17	3	US-09-021-701-79	Sequence 79, Appl
311	11	52.4	17	3	US-09-021-701-80	Sequence 80, Appl
312	11	52.4	17	3	US-09-021-701-81	Sequence 81, Appl
313	11	52.4	17	3	US-09-021-701-82	Sequence 82, Appl
314	11	52.4	17	3	US-09-021-701-83	Sequence 83, Appl
315	11	52.4	17	3	US-09-021-701-84	Sequence 84, Appl
316	11	52.4	17	3	US-09-021-701-85	Sequence 85, Appl
317	11	52.4	18	3	US-09-573-425B-34	Sequence 34, Appl
c 318	11	52.4	20	2	US-08-065-845-2	Sequence 2, Appli
319	11	52.4	20	2	US-08-065-845-4	Sequence 4, Appli
320	11	52.4	20	2	US-08-233-608-39	Sequence 39, Appl
c 321	11	52.4	20	2	US-08-233-608-40	Sequence 40, Appl
c 322	11	52.4	20	2	US-08-429-523-2	Sequence 2, Appli
323	11	52.4	20	2	US-08-429-523-4	Sequence 4, Appli
c 324	11	52.4	20	2	US-08-429-532-2	Sequence 2, Appli
325	11	52.4	20	2	US-08-429-532-4	Sequence 4, Appli
326	11	52.4	20	2	US-07-976-103A-26	Sequence 26, Appl
c 327	11	52.4	20	2	US-08-429-522-2	Sequence 2, Appli
328	11	52.4	20	2	US-08-429-522-4	Sequence 4, Appli
c 329	11	52.4	20	2	US-08-429-520-2	Sequence 2, Appli
330	11	52.4	20	2	US-08-429-520-4	Sequence 4, Appli
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c 332	11	52.4	20	2	US-08-742-023-11	Sequence 11, Appl
333	11	52.4	20	2	US-08-887-480-39	Sequence 39, Appl
c 334	11	52.4	20	2	US-08-887-480-40	Sequence 40, Appl
335	11	52.4	20	2	US-08-905-314A-2	Sequence 2, Appli
c 336	11	52.4	20	2	US-08-905-314A-3	Sequence 3, Appli
c 337	11	52.4	20	2	US-08-557-139-18	Sequence 18, Appl
338	11	52.4	20	2	US-08-473-481-26	Sequence 26, Appl
c 339	11	52.4	20	2	US-08-704-207-2	Sequence 2, Appli
340	11	52.4	20	2	US-08-722-187-39	Sequence 39, Appl
c 341	11	52.4	20	2	US-08-722-187-40	Sequence 40, Appl
342	11	52.4	20	3	US-08-968-505-10	Sequence 10, Appl
c 343	11	52.4	20	3	US-08-968-505-11	Sequence 11, Appl
c 344	11	52.4	20	3	US-09-429-323-4	Sequence 4, Appli
c 345	11	52.4	20	3	US-09-280-805-51	Sequence 51, Appl
c 346	11	52.4	20	3	US-09-517-584A-17	Sequence 17, Appl
c 347	11	52.4	20	3	US-09-153-555-4	Sequence 4, Appli
348	11	52.4	20	3	US-09-258-967-2	Sequence 2, Appli
c 349	11	52.4	20	3	US-09-258-967-3	Sequence 3, Appli
c 350	11	52.4	20	3	US-09-269-136B-2	Sequence 2, Appli
351	11	52.4	20	3	US-09-269-136B-4	Sequence 4, Appli
c 352	11	52.4	20	3	US-08-903-446A-14	Sequence 14, Appl
c 353	11	52.4	20	3	US-09-487-368A-153	Sequence 153, App
354	11	52.4	20	3	US-09-026-601-2	Sequence 2, Appli
c 355	11	52.4	20	3	US-09-026-601-3	Sequence 3, Appli
356	11	52.4	20	3	US-08-599-738A-26	Sequence 26, Appl
357	11	52.4	20	3	US-09-295-593-14	Sequence 14, Appl
358	11	52.4	20	3	US-09-481-293-2	Sequence 2, Appli
c 359	11	52.4	20	3	US-09-481-293-3	Sequence 3, Appli
c 360	11	52.4	20	3	US-09-629-644A-153	Sequence 153, App
c 361	11	52.4	20	3	US-09-629-644A-153	Sequence 153, App
362	11	52.4	20	3	US-09-939-379B-2	Sequence 2, Appli
c 363	11	52.4	20	3	US-09-939-379B-3	Sequence 3, Appli
364	11	52.4	20	3	US-09-495-714C-65	Sequence 65, Appl
365	11	52.4	20	3	US-09-758-881-141	Sequence 141, App
366	11	52.4	20	3	US-09-232-785-185	Sequence 185, App

367	11	52.4	20	3	US-09-961-663-2	Sequence 2, Appli
c 368	11	52.4	20	3	US-09-961-663-3	Sequence 3, Appli
369	11	52.4	20	3	US-10-294-203-26	Sequence 26, Appl
c 370	11	52.4	20	3	US-09-584-216-2	Sequence 2, Appli
371	11	52.4	20	3	US-09-961-755A-10	Sequence 10, Appl
c 372	11	52.4	20	3	US-09-961-755A-11	Sequence 11, Appl
c 373	11	52.4	20	3	US-10-232-858-29	Sequence 29, Appl
374	11	52.4	20	3	US-10-294-203-26	Sequence 26, Appl
c 375	11	52.4	20	3	US-09-338-063A-29	Sequence 29, Appl
376	11	52.4	20	3	US-10-024-818-26	Sequence 26, Appl
377	11	52.4	20	7	PCT-US95-04712-39	Sequence 39, Appl
c 378	11	52.4	20	7	PCT-US95-04712-40	Sequence 40, Appl
379	11	52.4	21	2	US-07-665-960A-48	Sequence 48, Appl
380	11	52.4	21	2	US-08-106-802-48	Sequence 48, Appl
381	11	52.4	21	2	US-08-585-888-9	Sequence 9, Appli
382	11	52.4	21	2	US-08-703-136-48	Sequence 48, Appl
383	11	52.4	21	3	US-09-195-991-9	Sequence 9, Appli
c 384	11	52.4	21	3	US-09-177-650-59	Sequence 59, Appl
c 385	11	52.4	21	3	US-09-435-471B-6	Sequence 6, Appli
c 386	11	52.4	22	3	US-09-907-843-6	Sequence 6, Appli
c 387	11	52.4	22	3	US-09-612-204B-30	Sequence 30, Appl
c 388	11	52.4	22	3	US-10-055-364-30	Sequence 30, Appl
c 389	11	52.4	23	3	US-09-234-827B-6	Sequence 6, Appli
390	11	52.4	25	3	US-09-396-196G-21089	Sequence 21089, A
391	11	52.4	25	3	US-09-396-196G-21090	Sequence 21090, A
392	11	52.4	25	3	US-09-396-196G-21092	Sequence 21092, A
c 393	11	52.4	25	3	US-09-396-196G-22450	Sequence 22450, A
c 394	11	52.4	25	3	US-09-396-196G-29269	Sequence 29269, A
c 395	11	52.4	25	3	US-09-396-196G-36690	Sequence 36690, A
396	11	52.4	25	3	US-09-396-196G-37765	Sequence 37765, A
397	11	52.4	25	3	US-09-396-196G-38509	Sequence 38509, A
398	11	52.4	25	3	US-09-396-196G-38510	Sequence 38510, A
399	11	52.4	25	3	US-09-396-196G-38511	Sequence 38511, A
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c 403	11	52.4	25	3	US-09-396-196G-49776	Sequence 49776, A
c 404	11	52.4	25	3	US-09-396-196G-49777	Sequence 49777, A
c 405	11	52.4	25	3	US-09-396-196G-50486	Sequence 50486, A
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407	11	52.4	25	3	US-09-396-196G-62151	Sequence 62151, A
408	11	52.4	25	3	US-09-396-196G-65058	Sequence 65058, A
409	11	52.4	25	3	US-09-396-196G-65474	Sequence 65474, A
c 410	11	52.4	25	3	US-09-396-196G-67333	Sequence 67333, A
c 411	11	52.4	25	3	US-09-396-196G-75167	Sequence 75167, A
c 412	11	52.4	25	3	US-09-396-196G-75168	Sequence 75168, A
c 413	11	52.4	25	3	US-09-396-196G-82166	Sequence 82166, A
c 414	11	52.4	25	3	US-09-396-196G-82167	Sequence 82167, A
c 415	11	52.4	25	3	US-09-396-196G-82168	Sequence 82168, A
c 416	11	52.4	25	3	US-09-396-196G-82169	Sequence 82169, A
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423	11	52.4	25	3	US-09-396-196G-107046	Sequence 107046,
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425	11	52.4	25	3	US-09-396-196G-110879	Sequence 110879,
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430	11	52.4	25	3	US-09-396-196G-118463	Sequence 118463,
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433	11	52.4	26	3	US-09-225-928-126	Sequence 126, App
c 434	11	52.4	26	3	US-09-593-012-215	Sequence 215, App
435	11	52.4	26	3	US-09-225-201B-126	Sequence 126, App
c 436	11	52.4	26	3	US-09-907-794A-87	Sequence 87, Appl
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c 438	11	52.4	26	3	US-09-902-775A-87	Sequence 87, Appl
c 439	11	52.4	26	3	US-08-916-247A-11	Sequence 11, Appl
c 440	11	52.4	26	3	US-09-906-700-87	Sequence 87, Appl
c 441	11	52.4	26	3	US-09-903-603A-87	Sequence 87, Appl
c 442	11	52.4	26	3	US-09-904-920A-87	Sequence 87, Appl
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c 446	11	52.4	26	3	US-09-906-646-87	Sequence 87, Appl
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c 450	11	52.4	26	4	US-09-905-449-87	Sequence 87, Appl
c 451	11	52.4	26	4	US-09-903-562B-87	Sequence 87, Appl
c 452	11	52.4	26	4	US-09-906-679A-87	Sequence 87, Appl
c 453	11	52.4	26	5	US-09-907-841-87	Sequence 87, Appl
c 454	11	52.4	27	3	US-08-998-099-213	Sequence 213, App
455	11	52.4	27	3	US-08-998-099-230	Sequence 230, App
c 456	11	52.4	27	3	US-08-584-040-5008	Sequence 5008, Ap
c 457	11	52.4	27	3	US-08-584-040-6287	Sequence 6287, Ap
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459	11	52.4	28	4	US-09-957-483-54	Sequence 54, Appl
c 460	11	52.4	29	3	US-08-848-760B-20	Sequence 20, Appl
461	11	52.4	29	3	US-09-304-232-657	Sequence 657, App
c 462	11	52.4	29	3	US-09-826-025-20	Sequence 20, Appl
c 463	11	52.4	30	3	US-09-252-436-5	Sequence 5, Appli
464	11	52.4	30	3	US-09-252-436-6	Sequence 6, Appli
465	11	52.4	30	3	US-09-252-436-7	Sequence 7, Appli
466	11	52.4	30	3	US-09-252-436-8	Sequence 8, Appli
467	11	52.4	30	3	US-09-252-436-9	Sequence 9, Appli
468	11	52.4	30	3	US-09-252-436-10	Sequence 10, Appl
469	11	52.4	30	3	US-09-252-436-11	Sequence 11, Appl
470	11	52.4	30	3	US-09-252-436-12	Sequence 12, Appl
471	11	52.4	30	3	US-09-252-436-13	Sequence 13, Appl
472	11	52.4	30	3	US-09-252-436-14	Sequence 14, Appl
473	11	52.4	30	3	US-09-252-436-15	Sequence 15, Appl
474	11	52.4	30	3	US-09-252-436-16	Sequence 16, Appl
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478	11	52.4	30	3	US-09-358-972-57	Sequence 57, Appl
479	11	52.4	30	3	US-09-358-972-58	Sequence 58, Appl
480	11	52.4	30	3	US-09-358-972-62	Sequence 62, Appl
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482	11	52.4	30	3	US-09-358-972-64	Sequence 64, Appl
483	11	52.4	30	3	US-09-358-972-68	Sequence 68, Appl
484	11	52.4	30	3	US-09-358-972-69	Sequence 69, Appl
485	11	52.4	30	3	US-09-358-972-70	Sequence 70, Appl
486	11	52.4	30	3	US-09-358-972-71	Sequence 71, Appl
c 487	11	52.4	30	3	US-09-358-972-190	Sequence 190, App
c 488	11	52.4	30	3	US-09-358-972-191	Sequence 191, App

489	11	52.4	30	3	US-09-358-972-192	Sequence 192, App
c 490	11	52.4	30	3	US-09-358-972-193	Sequence 193, App
491	11	52.4	30	3	US-09-406-064-21	Sequence 21, Appl
c 492	11	52.4	30	3	US-09-406-147-25	Sequence 25, Appl
493	11	52.4	30	3	US-09-406-147-26	Sequence 26, Appl
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495	11	52.4	30	3	US-09-788-847-21	Sequence 21, Appl
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499	11	52.4	30	3	US-09-790-417-57	Sequence 57, Appl
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503	11	52.4	30	3	US-09-790-417-64	Sequence 64, Appl
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505	11	52.4	30	3	US-09-790-417-69	Sequence 69, Appl
506	11	52.4	30	3	US-09-790-417-70	Sequence 70, Appl
507	11	52.4	30	3	US-09-790-417-71	Sequence 71, Appl
c 508	11	52.4	30	3	US-09-790-417-190	Sequence 190, App
c 509	11	52.4	30	3	US-09-790-417-191	Sequence 191, App
510	11	52.4	30	3	US-09-790-417-192	Sequence 192, App
c 511	11	52.4	30	3	US-09-790-417-193	Sequence 193, App
c 512	10.8	51.4	17	3	US-09-474-432B-818	Sequence 818, App
c 513	10.8	51.4	17	3	US-09-476-387-817	Sequence 817, App
c 514	10.8	51.4	17	3	US-09-866-108A-6379	Sequence 6379, Ap
c 515	10.8	51.4	17	3	US-09-866-108A-6380	Sequence 6380, Ap
516	10.8	51.4	18	3	US-09-106-038A-68	Sequence 68, Appl
c 517	10.8	51.4	18	3	US-08-927-274A-6	Sequence 6, Appli
518	10.8	51.4	18	3	US-09-071-433-81	Sequence 81, Appl
519	10.8	51.4	18	3	US-09-564-805-46	Sequence 46, Appl
c 520	10.8	51.4	18	3	US-09-564-805-47	Sequence 47, Appl
521	10.8	51.4	18	3	US-09-434-382-46	Sequence 46, Appl
c 522	10.8	51.4	18	3	US-09-434-382-47	Sequence 47, Appl
c 523	10.8	51.4	19	2	US-07-696-793A-49	Sequence 49, Appl
c 524	10.8	51.4	19	2	US-07-977-694-49	Sequence 49, Appl
c 525	10.8	51.4	19	2	US-08-359-705B-35	Sequence 35, Appl
c 526	10.8	51.4	19	2	US-08-286-846A-35	Sequence 35, Appl
c 527	10.8	51.4	19	2	US-08-457-880A-35	Sequence 35, Appl
c 528	10.8	51.4	19	3	US-08-444-622A-35	Sequence 35, Appl
c 529	10.8	51.4	19	3	US-08-942-562-35	Sequence 35, Appl
c 530	10.8	51.4	19	3	US-09-156-923-35	Sequence 35, Appl
531	10.8	51.4	19	3	US-09-215-221-45	Sequence 45, Appl
c 532	10.8	51.4	20	2	US-07-872-644-8	Sequence 8, Appli
c 533	10.8	51.4	20	2	US-08-297-494-8	Sequence 8, Appli
c 534	10.8	51.4	20	2	US-08-297-510-8	Sequence 8, Appli
c 535	10.8	51.4	20	2	US-08-479-532-8	Sequence 8, Appli
c 536	10.8	51.4	20	2	US-08-455-526-8	Sequence 8, Appli
c 537	10.8	51.4	20	2	US-08-455-525-8	Sequence 8, Appli
c 538	10.8	51.4	20	3	US-09-139-491-8	Sequence 8, Appli
c 539	10.8	51.4	20	3	US-09-418-640-53	Sequence 53, Appl
540	10.8	51.4	20	3	US-09-920-668-16	Sequence 16, Appl
541	10.8	51.4	20	3	US-09-386-816C-17	Sequence 17, Appl
c 542	10.8	51.4	20	3	US-09-883-825-8	Sequence 8, Appli
543	10.8	51.4	20	3	US-10-320-176-17	Sequence 17, Appl
c 544	10.8	51.4	20	7	PCT-US92-03222-8	Sequence 8, Appli
c 545	10.8	51.4	21	2	US-08-403-888A-92	Sequence 92, Appl
c 546	10.8	51.4	22	2	US-08-440-103-7	Sequence 7, Appli
c 547	10.8	51.4	22	2	US-08-440-542-7	Sequence 7, Appli
c 548	10.8	51.4	22	2	US-08-231-368-7	Sequence 7, Appli
c 549	10.8	51.4	22	2	US-08-440-210-7	Sequence 7, Appli

c 550	10.8	51.4	22	3	US-09-046-604-7	Sequence 7, Appli
c 551	10.8	51.4	23	2	US-08-255-264-7	Sequence 7, Appli
c 552	10.8	51.4	25	2	US-07-771-022F-9	Sequence 9, Appli
c 553	10.8	51.4	25	3	US-09-538-709-475	Sequence 475, App
c 554	10.8	51.4	25	3	US-09-866-108A-11279	Sequence 11279, A
c 555	10.8	51.4	25	3	US-09-866-108A-11280	Sequence 11280, A
c 556	10.8	51.4	25	3	US-09-396-196G-5963	Sequence 5963, Ap
c 557	10.8	51.4	25	3	US-09-396-196G-5969	Sequence 5969, Ap
c 558	10.8	51.4	25	3	US-09-396-196G-5974	Sequence 5974, Ap
c 559	10.8	51.4	25	3	US-09-396-196G-5975	Sequence 5975, Ap
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562	10.8	51.4	25	3	US-09-396-196G-14583	Sequence 14583, A
563	10.8	51.4	25	3	US-09-396-196G-14584	Sequence 14584, A
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c 565	10.8	51.4	25	3	US-09-396-196G-18066	Sequence 18066, A
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c 570	10.8	51.4	25	3	US-09-396-196G-32495	Sequence 32495, A
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576	10.8	51.4	25	3	US-09-396-196G-73237	Sequence 73237, A
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579	10.8	51.4	25	3	US-09-396-196G-87351	Sequence 87351, A
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c 583	10.8	51.4	25	3	US-09-396-196G-93877	Sequence 93877, A
c 584	10.8	51.4	25	3	US-09-396-196G-107004	Sequence 107004, A
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586	10.8	51.4	25	3	US-09-396-196G-110603	Sequence 110603, A
c 587	10.8	51.4	25	3	US-09-396-196G-114482	Sequence 114482, A
c 588	10.8	51.4	25	3	US-09-396-196G-120073	Sequence 120073, A
c 589	10.8	51.4	25	3	US-09-396-196G-123741	Sequence 123741, A
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c 591	10.8	51.4	25	3	US-09-396-196G-125517	Sequence 125517, A
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593	10.8	51.4	25	3	US-09-396-196G-125734	Sequence 125734, A
594	10.8	51.4	25	3	US-09-396-196G-125735	Sequence 125735, A
595	10.8	51.4	25	3	US-09-396-196G-125736	Sequence 125736, A
596	10.8	51.4	25	3	US-09-396-196G-126215	Sequence 126215, A
c 597	10.8	51.4	25	3	US-09-999-833A-240	Sequence 240, App
c 598	10.8	51.4	25	3	US-10-020-445A-240	Sequence 240, App
c 599	10.8	51.4	25	4	US-10-099-322-317	Sequence 317, App
c 600	10.8	51.4	25	4	US-09-978-189-240	Sequence 240, App
c 601	10.8	51.4	25	4	US-10-017-085A-240	Sequence 240, App
c 602	10.8	51.4	25	5	US-10-145-129A-240	Sequence 240, App
c 603	10.8	51.4	25	5	US-10-013-929A-240	Sequence 240, App
c 604	10.8	51.4	25	5	US-10-013-917A-240	Sequence 240, App
c 605	10.8	51.4	26	2	US-08-049-264C-56	Sequence 56, Appl
c 606	10.8	51.4	26	2	US-08-476-562-56	Sequence 56, Appl
c 607	10.8	51.4	26	2	US-08-479-723A-56	Sequence 56, Appl
608	10.8	51.4	26	3	US-09-589-733C-33	Sequence 33, Appl
c 609	10.8	51.4	26	5	US-10-114-270-316	Sequence 316, App
c 610	10.8	51.4	26	7	PCT-US94-04310-56	Sequence 56, Appl

c 611	10.8	51.4	27	2	US-08-112-817C-3	Sequence 3, Appli
612	10.8	51.4	27	2	US-08-363-585-13	Sequence 13, Appl
c 613	10.8	51.4	27	2	US-08-782-760-8	Sequence 8, Appli
c 614	10.8	51.4	27	7	PCT-US96-00995-8	Sequence 8, Appli
615	10.8	51.4	28	3	US-09-417-197-19	Sequence 19, Appl
c 616	10.8	51.4	29	3	US-09-304-232-843	Sequence 843, App
c 617	10.8	51.4	30	2	US-08-426-819A-26	Sequence 26, Appl
618	10.8	51.4	30	3	US-09-117-708-10	Sequence 10, Appl
c 619	10.8	51.4	30	3	US-09-117-708-11	Sequence 11, Appl
c 620	10.8	51.4	30	3	US-09-578-634A-32	Sequence 32, Appl
c 621	10.8	51.4	30	5	US-09-826-206A-9	Sequence 9, Appli
622	10.6	50.5	17	3	US-08-713-742-7	Sequence 7, Appli
623	10.6	50.5	17	3	US-09-372-856-7	Sequence 7, Appli
624	10.6	50.5	17	3	US-09-688-394-7	Sequence 7, Appli
c 625	10.6	50.5	17	3	US-09-866-108A-499	Sequence 499, App
c 626	10.6	50.5	17	3	US-09-866-108A-500	Sequence 500, App
c 627	10.6	50.5	17	3	US-09-404-912-56	Sequence 56, Appl
628	10.6	50.5	17	3	US-09-934-138B-7	Sequence 7, Appli
629	10.6	50.5	18	2	US-08-532-979-3	Sequence 3, Appli
630	10.6	50.5	18	2	US-08-532-979-8	Sequence 8, Appli
631	10.6	50.5	18	3	US-09-339-180A-1	Sequence 1, Appli
632	10.6	50.5	18	3	US-09-321-249-21	Sequence 21, Appl
633	10.6	50.5	18	3	US-09-777-526A-21	Sequence 21, Appl
c 634	10.6	50.5	18	3	US-10-258-842-6	Sequence 6, Appli
635	10.6	50.5	19	2	US-08-331-389A-41	Sequence 41, Appl
636	10.6	50.5	19	3	US-09-192-657A-41	Sequence 41, Appl
c 637	10.6	50.5	19	3	US-09-578-634A-1	Sequence 1, Appli
638	10.6	50.5	20	3	US-08-930-797B-12	Sequence 12, Appl
c 639	10.6	50.5	20	3	US-09-444-053-72	Sequence 72, Appl
640	10.6	50.5	20	3	US-09-476-256-6	Sequence 6, Appli
641	10.6	50.5	20	3	US-09-476-256-15	Sequence 15, Appl
c 642	10.6	50.5	20	3	US-09-742-703-36	Sequence 36, Appl
643	10.6	50.5	20	3	US-09-702-327-21	Sequence 21, Appl
644	10.6	50.5	20	3	US-09-517-467B-82	Sequence 82, Appl
645	10.6	50.5	20	3	US-09-422-978-11616	Sequence 11616, A
646	10.6	50.5	20	3	US-09-198-452A-2940	Sequence 2940, Ap
647	10.6	50.5	20	3	US-09-081-385-72	Sequence 72, Appl
648	10.6	50.5	20	3	US-09-589-560B-46	Sequence 46, Appl
649	10.6	50.5	20	3	US-09-966-451-31	Sequence 31, Appl
c 650	10.6	50.5	20	3	US-09-731-457B-36	Sequence 36, Appl
651	10.6	50.5	20	3	US-09-752-639-72	Sequence 72, Appl
652	10.6	50.5	20	3	US-09-712-813-72	Sequence 72, Appl
653	10.6	50.5	20	3	US-09-700-354A-72	Sequence 72, Appl
c 654	10.6	50.5	20	4	US-09-852-053-6	Sequence 6, Appli
655	10.6	50.5	20	10	5487993-14	Patent No. 5487993
c 656	10.6	50.5	21	2	US-08-482-577B-46	Sequence 46, Appl
657	10.6	50.5	21	2	US-08-331-389A-42	Sequence 42, Appl
658	10.6	50.5	21	2	US-08-331-389A-43	Sequence 43, Appl
c 659	10.6	50.5	21	2	US-08-288-508C-37	Sequence 37, Appl
c 660	10.6	50.5	21	3	US-08-289-222E-50	Sequence 50, Appl
c 661	10.6	50.5	21	3	US-09-218-176-29	Sequence 29, Appl
662	10.6	50.5	21	3	US-09-192-657A-42	Sequence 42, Appl
663	10.6	50.5	21	3	US-09-192-657A-43	Sequence 43, Appl
c 664	10.6	50.5	21	3	US-09-054-526B-50	Sequence 50, Appl
665	10.6	50.5	21	3	US-09-422-978-10682	Sequence 10682, A
666	10.6	50.5	21	3	US-09-495-714C-8	Sequence 8, Appli
667	10.6	50.5	21	3	US-09-657-472-877	Sequence 877, App
c 668	10.6	50.5	21	3	US-09-657-472-2053	Sequence 2053, Ap
c 669	10.6	50.5	21	3	US-09-386-450D-37	Sequence 37, Appl
c 670	10.6	50.5	21	5	US-09-684-383-29	Sequence 29, Appl
c 671	10.6	50.5	22	2	US-08-233-608-23	Sequence 23, Appl

672	10.6	50.5	22	2	US-08-485-618-59	Sequence 59, Appl
673	10.6	50.5	22	2	US-08-362-652-59	Sequence 59, Appl
c 674	10.6	50.5	22	2	US-08-887-480-23	Sequence 23, Appl
675	10.6	50.5	22	2	US-08-605-672-59	Sequence 59, Appl
676	10.6	50.5	22	2	US-08-482-293A-59	Sequence 59, Appl
677	10.6	50.5	22	2	US-08-943-363-59	Sequence 59, Appl
c 678	10.6	50.5	22	2	US-08-722-187-23	Sequence 23, Appl
679	10.6	50.5	22	3	US-09-193-043-59	Sequence 59, Appl
680	10.6	50.5	22	3	US-09-688-307A-59	Sequence 59, Appl
681	10.6	50.5	22	3	US-09-350-259-59	Sequence 59, Appl
c 682	10.6	50.5	22	3	US-09-875-228-28	Sequence 28, Appl
c 683	10.6	50.5	22	7	PCT-US95-04712-23	Sequence 23, Appl
684	10.6	50.5	24	3	US-08-487-799-55	Sequence 55, Appl
685	10.6	50.5	24	3	US-09-475-947A-293	Sequence 293, App
686	10.6	50.5	24	3	US-09-371-307-15	Sequence 15, Appl
687	10.6	50.5	24	3	US-10-314-048A-152	Sequence 152, App
c 688	10.6	50.5	25	2	US-08-508-448C-6	Sequence 6, Appli
c 689	10.6	50.5	25	3	US-09-617-548-4	Sequence 4, Appli
690	10.6	50.5	25	3	US-09-171-755B-35	Sequence 35, Appl
c 691	10.6	50.5	25	3	US-09-866-108A-3428	Sequence 3428, Ap
c 692	10.6	50.5	25	3	US-09-396-196G-483	Sequence 483, App
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694	10.6	50.5	25	3	US-09-396-196G-5036	Sequence 5036, Ap
c 695	10.6	50.5	25	3	US-09-396-196G-13200	Sequence 13200, A
c 696	10.6	50.5	25	3	US-09-396-196G-13201	Sequence 13201, A
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698	10.6	50.5	25	3	US-09-396-196G-21088	Sequence 21088, A
c 699	10.6	50.5	25	3	US-09-396-196G-22783	Sequence 22783, A
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702	10.6	50.5	25	3	US-09-396-196G-37378	Sequence 37378, A
703	10.6	50.5	25	3	US-09-396-196G-38073	Sequence 38073, A
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705	10.6	50.5	25	3	US-09-396-196G-43319	Sequence 43319, A
706	10.6	50.5	25	3	US-09-396-196G-46749	Sequence 46749, A
707	10.6	50.5	25	3	US-09-396-196G-48483	Sequence 48483, A
c 708	10.6	50.5	25	3	US-09-396-196G-50994	Sequence 50994, A
c 709	10.6	50.5	25	3	US-09-396-196G-51947	Sequence 51947, A
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c 712	10.6	50.5	25	3	US-09-396-196G-61186	Sequence 61186, A
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714	10.6	50.5	25	3	US-09-396-196G-61670	Sequence 61670, A
715	10.6	50.5	25	3	US-09-396-196G-61671	Sequence 61671, A
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c 717	10.6	50.5	25	3	US-09-396-196G-62043	Sequence 62043, A
c 718	10.6	50.5	25	3	US-09-396-196G-62044	Sequence 62044, A
c 719	10.6	50.5	25	3	US-09-396-196G-62045	Sequence 62045, A
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722	10.6	50.5	25	3	US-09-396-196G-105635	Sequence 105635,
723	10.6	50.5	25	3	US-09-396-196G-105652	Sequence 105652,
724	10.6	50.5	25	3	US-09-396-196G-108705	Sequence 108705,
725	10.6	50.5	25	3	US-09-396-196G-108706	Sequence 108706,
726	10.6	50.5	25	3	US-09-396-196G-118979	Sequence 118979,
727	10.6	50.5	25	3	US-09-396-196G-120490	Sequence 120490,
c 728	10.6	50.5	25	3	US-09-396-196G-126520	Sequence 126520,
c 729	10.6	50.5	25	3	US-09-396-196G-127748	Sequence 127748,
c 730	10.6	50.5	27	2	US-08-771-850A-7	Sequence 7, Appli
c 731	10.6	50.5	27	3	US-08-584-040-739	Sequence 739, App
c 732	10.6	50.5	27	3	US-08-584-040-971	Sequence 971, App

c 733	10.6	50.5	27	3	US-08-584-040-6861	Sequence 6861, Ap
c 734	10.6	50.5	27	3	US-08-584-040-6908	Sequence 6908, Ap
c 735	10.6	50.5	27	3	US-08-679-645-1123	Sequence 1123, Ap
736	10.6	50.5	29	2	US-08-814-567A-10	Sequence 10, Appl
c 737	10.6	50.5	30	2	US-07-832-905B-87	Sequence 87, Appl
c 738	10.6	50.5	30	2	US-08-700-757-87	Sequence 87, Appl
739	10.6	50.5	30	3	US-09-105-697-11	Sequence 11, Appl
740	10.6	50.5	30	3	US-09-146-631-11	Sequence 11, Appl
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c 742	10.4	49.5	13	4	US-09-341-700A-1290	Sequence 1290, Ap
743	10.4	49.5	15	2	US-08-291-932A-222	Sequence 222, App
c 744	10.4	49.5	17	3	US-09-474-432B-599	Sequence 599, App
c 745	10.4	49.5	17	3	US-09-476-387-598	Sequence 598, App
c 746	10.4	49.5	17	3	US-09-404-912-261	Sequence 261, App
c 747	10.4	49.5	17	5	US-10-138-674B-9096	Sequence 9096, Ap
748	10.4	49.5	18	2	US-08-466-860-51	Sequence 51, Appl
c 749	10.4	49.5	18	3	US-09-156-807-15	Sequence 15, Appl
c 750	10.4	49.5	18	3	US-09-199-859-15	Sequence 15, Appl
751	10.4	49.5	18	3	US-08-472-040A-51	Sequence 51, Appl
752	10.4	49.5	18	3	US-08-276-776-51	Sequence 51, Appl
753	10.4	49.5	18	3	US-08-471-209-51	Sequence 51, Appl
754	10.4	49.5	18	3	US-09-167-109-122	Sequence 122, App
c 755	10.4	49.5	18	3	US-09-387-341-117	Sequence 117, App
756	10.4	49.5	18	3	US-09-422-978-4482	Sequence 4482, Ap
c 757	10.4	49.5	18	3	US-09-856-747-15	Sequence 15, Appl
c 758	10.4	49.5	18	3	US-08-925-214-4	Sequence 4, Appli
c 759	10.4	49.5	19	2	US-08-899-811-4	Sequence 4, Appli
c 760	10.4	49.5	19	3	US-09-591-366-66	Sequence 66, Appl
c 761	10.4	49.5	20	2	US-08-889-296A-50	Sequence 50, Appl
762	10.4	49.5	20	2	US-08-899-811-5	Sequence 5, Appli
c 763	10.4	49.5	20	3	US-08-961-469A-57	Sequence 57, Appl
c 764	10.4	49.5	20	3	US-09-128-494-50	Sequence 50, Appl
c 765	10.4	49.5	20	3	US-09-049-020-4	Sequence 4, Appli
766	10.4	49.5	20	3	US-08-855-583A-25	Sequence 25, Appl
c 767	10.4	49.5	20	3	US-09-517-584A-54	Sequence 54, Appl
768	10.4	49.5	20	3	US-09-619-444-25	Sequence 25, Appl
769	10.4	49.5	20	3	US-09-313-932-330	Sequence 330, App
770	10.4	49.5	20	3	US-09-313-932-455	Sequence 455, App
c 771	10.4	49.5	20	3	US-09-177-249-322	Sequence 322, App
772	10.4	49.5	20	3	US-09-270-542-95	Sequence 95, Appl
773	10.4	49.5	20	3	US-08-887-497A-12	Sequence 12, Appl
774	10.4	49.5	20	3	US-08-471-974-12	Sequence 12, Appl
775	10.4	49.5	20	3	US-09-198-452A-6695	Sequence 6695, Ap
c 776	10.4	49.5	20	3	US-09-575-554-50	Sequence 50, Appl
c 777	10.4	49.5	20	3	US-09-812-283-322	Sequence 322, App
c 778	10.4	49.5	20	3	US-09-674-824-5	Sequence 5, Appli
c 779	10.4	49.5	20	3	US-10-176-884-27	Sequence 27, Appl
c 780	10.4	49.5	20	3	US-09-952-851B-6	Sequence 6, Appli
c 781	10.4	49.5	20	5	US-09-071-838A-322	Sequence 322, App
c 782	10.4	49.5	21	2	US-08-482-577B-44	Sequence 44, Appl
c 783	10.4	49.5	21	2	US-08-288-508C-35	Sequence 35, Appl
c 784	10.4	49.5	21	3	US-08-289-222E-48	Sequence 48, Appl
c 785	10.4	49.5	21	3	US-09-218-176-27	Sequence 27, Appl
c 786	10.4	49.5	21	3	US-09-054-526B-48	Sequence 48, Appl
787	10.4	49.5	21	3	US-09-109-663-58	Sequence 58, Appl
788	10.4	49.5	21	3	US-09-823-549-36	Sequence 36, Appl
c 789	10.4	49.5	21	3	US-09-386-450D-35	Sequence 35, Appl
c 790	10.4	49.5	21	5	US-09-684-383-27	Sequence 27, Appl
c 791	10.4	49.5	22	3	US-09-588-995A-73	Sequence 73, Appl
792	10.4	49.5	22	3	US-09-730-212C-2	Sequence 2, Appli
c 793	10.4	49.5	22	3	US-09-780-752-17	Sequence 17, Appl

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c 795	10.4	49.5	22	3	US-09-308-080-3	Sequence 3, Appli
796	10.4	49.5	22	4	US-10-646-758-11	Sequence 11, Appl
c 797	10.4	49.5	23	2	US-07-901-707-20	Sequence 20, Appl
c 798	10.4	49.5	23	2	US-07-988-430-20	Sequence 20, Appl
c 799	10.4	49.5	23	2	US-08-425-336-20	Sequence 20, Appl
c 800	10.4	49.5	23	2	US-08-307-619-49	Sequence 49, Appl
c 801	10.4	49.5	23	2	US-08-488-113B-20	Sequence 20, Appl
c 802	10.4	49.5	23	2	US-08-477-484B-20	Sequence 20, Appl
c 803	10.4	49.5	23	2	US-08-646-360-20	Sequence 20, Appl
c 804	10.4	49.5	23	2	US-08-350-260A-95	Sequence 95, Appl
c 805	10.4	49.5	23	2	US-08-350-260A-568	Sequence 568, App
c 806	10.4	49.5	23	2	US-08-596-319-25	Sequence 25, Appl
c 807	10.4	49.5	23	3	US-09-050-783-49	Sequence 49, Appl
c 808	10.4	49.5	23	3	US-08-839-765-20	Sequence 20, Appl
c 809	10.4	49.5	23	3	US-09-136-389-20	Sequence 20, Appl
c 810	10.4	49.5	23	3	US-09-610-838-20	Sequence 20, Appl
c 811	10.4	49.5	23	3	US-09-104-337A-95	Sequence 95, Appl
c 812	10.4	49.5	23	3	US-09-104-337A-568	Sequence 568, App
813	10.4	49.5	23	3	US-09-546-934-15	Sequence 15, Appl
c 814	10.4	49.5	23	3	US-09-989-002-8	Sequence 8, Appli
c 815	10.4	49.5	23	3	US-09-989-002-30	Sequence 30, Appl
c 816	10.4	49.5	23	3	US-09-711-485-20	Sequence 20, Appl
c 817	10.4	49.5	23	7	PCT-US92-09487-20	Sequence 20, Appl
c 818	10.4	49.5	24	2	US-08-742-755A-28	Sequence 28, Appl
c 819	10.4	49.5	24	3	US-09-226-683-28	Sequence 28, Appl
c 820	10.4	49.5	24	3	US-09-035-183-28	Sequence 28, Appl
c 821	10.4	49.5	24	3	US-09-521-656-1	Sequence 1, Appli
c 822	10.4	49.5	24	3	US-08-693-234-13	Sequence 13, Appl
c 823	10.4	49.5	24	3	US-09-788-038-28	Sequence 28, Appl
c 824	10.4	49.5	24	3	US-09-744-176A-18	Sequence 18, Appl
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826	10.4	49.5	25	3	US-09-866-108A-12780	Sequence 12780, A
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829	10.4	49.5	25	3	US-09-866-108A-12783	Sequence 12783, A
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c 833	10.4	49.5	25	3	US-09-396-196G-951	Sequence 951, App
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835	10.4	49.5	25	3	US-09-396-196G-4296	Sequence 4296, Ap
836	10.4	49.5	25	3	US-09-396-196G-4358	Sequence 4358, Ap
837	10.4	49.5	25	3	US-09-396-196G-4359	Sequence 4359, Ap
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c 843	10.4	49.5	25	3	US-09-396-196G-24916	Sequence 24916, A
844	10.4	49.5	25	3	US-09-396-196G-27884	Sequence 27884, A
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c 852	10.4	49.5	25	3	US-09-396-196G-35443	Sequence 35443, A
c 853	10.4	49.5	25	3	US-09-396-196G-37007	Sequence 37007, A
c 854	10.4	49.5	25	3	US-09-396-196G-37008	Sequence 37008, A

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859	10.4	49.5	25	3	US-09-396-196G-40411	Sequence 40411, A
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c 863	10.4	49.5	25	3	US-09-396-196G-41957	Sequence 41957, A
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865	10.4	49.5	25	3	US-09-396-196G-44999	Sequence 44999, A
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c 867	10.4	49.5	25	3	US-09-396-196G-46508	Sequence 46508, A
868	10.4	49.5	25	3	US-09-396-196G-47296	Sequence 47296, A
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871	10.4	49.5	25	3	US-09-396-196G-49123	Sequence 49123, A
c 872	10.4	49.5	25	3	US-09-396-196G-49160	Sequence 49160, A
c 873	10.4	49.5	25	3	US-09-396-196G-50186	Sequence 50186, A
c 874	10.4	49.5	25	3	US-09-396-196G-53939	Sequence 53939, A
c 875	10.4	49.5	25	3	US-09-396-196G-55423	Sequence 55423, A
876	10.4	49.5	25	3	US-09-396-196G-59283	Sequence 59283, A
877	10.4	49.5	25	3	US-09-396-196G-59284	Sequence 59284, A
878	10.4	49.5	25	3	US-09-396-196G-59479	Sequence 59479, A
879	10.4	49.5	25	3	US-09-396-196G-60549	Sequence 60549, A
c 880	10.4	49.5	25	3	US-09-396-196G-60727	Sequence 60727, A
c 881	10.4	49.5	25	3	US-09-396-196G-60728	Sequence 60728, A
882	10.4	49.5	25	3	US-09-396-196G-61015	Sequence 61015, A
883	10.4	49.5	25	3	US-09-396-196G-61016	Sequence 61016, A
884	10.4	49.5	25	3	US-09-396-196G-65739	Sequence 65739, A
885	10.4	49.5	25	3	US-09-396-196G-66142	Sequence 66142, A
c 886	10.4	49.5	25	3	US-09-396-196G-67596	Sequence 67596, A
887	10.4	49.5	25	3	US-09-396-196G-68143	Sequence 68143, A
888	10.4	49.5	25	3	US-09-396-196G-68144	Sequence 68144, A
c 889	10.4	49.5	25	3	US-09-396-196G-69696	Sequence 69696, A
c 890	10.4	49.5	25	3	US-09-396-196G-69697	Sequence 69697, A
891	10.4	49.5	25	3	US-09-396-196G-74554	Sequence 74554, A
892	10.4	49.5	25	3	US-09-396-196G-74555	Sequence 74555, A
c 893	10.4	49.5	25	3	US-09-396-196G-74665	Sequence 74665, A
c 894	10.4	49.5	25	3	US-09-396-196G-76872	Sequence 76872, A
c 895	10.4	49.5	25	3	US-09-396-196G-80492	Sequence 80492, A
c 896	10.4	49.5	25	3	US-09-396-196G-82770	Sequence 82770, A
897	10.4	49.5	25	3	US-09-396-196G-85862	Sequence 85862, A
898	10.4	49.5	25	3	US-09-396-196G-86370	Sequence 86370, A
899	10.4	49.5	25	3	US-09-396-196G-86590	Sequence 86590, A
900	10.4	49.5	25	3	US-09-396-196G-86952	Sequence 86952, A
901	10.4	49.5	25	3	US-09-396-196G-99616	Sequence 99616, A
902	10.4	49.5	25	3	US-09-396-196G-102679	Sequence 102679, A
c 903	10.4	49.5	25	3	US-09-396-196G-110802	Sequence 110802, A
c 904	10.4	49.5	25	3	US-09-396-196G-111719	Sequence 111719, A
c 905	10.4	49.5	25	3	US-09-396-196G-112146	Sequence 112146, A
c 906	10.4	49.5	25	3	US-09-396-196G-114550	Sequence 114550, A
c 907	10.4	49.5	25	3	US-09-396-196G-114551	Sequence 114551, A
908	10.4	49.5	25	3	US-09-396-196G-115391	Sequence 115391, A
909	10.4	49.5	25	3	US-09-396-196G-115392	Sequence 115392, A
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c 912	10.4	49.5	25	3	US-09-396-196G-122171	Sequence 122171, A
913	10.4	49.5	25	3	US-09-396-196G-124322	Sequence 124322, A
c 914	10.4	49.5	25	3	US-10-012-231A-166	Sequence 166, App
c 915	10.4	49.5	25	3	US-10-015-389A-166	Sequence 166, App



c 916	10.4	49.5	25	3	US-10-006-768A-166	Sequence 166, App
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c 918	10.4	49.5	25	3	US-10-015-393A-166	Sequence 166, App
c 919	10.4	49.5	25	3	US-10-011-833A-166	Sequence 166, App
c 920	10.4	49.5	25	3	US-10-006-041A-166	Sequence 166, App
c 921	10.4	49.5	25	3	US-10-012-064A-166	Sequence 166, App
c 922	10.4	49.5	25	4	US-10-015-392A-166	Sequence 166, App
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c 927	10.4	49.5	25	5	US-10-006-746A-166	Sequence 166, App
c 928	10.4	49.5	25	5	US-10-012-752A-166	Sequence 166, App
c 929	10.4	49.5	25	5	US-10-017-253A-166	Sequence 166, App
c 930	10.4	49.5	25	5	US-10-015-519A-166	Sequence 166, App
c 931	10.4	49.5	25	5	US-10-015-715A-166	Sequence 166, App
c 932	10.4	49.5	25	5	US-10-007-236A-166	Sequence 166, App
c 933	10.4	49.5	26	2	US-07-720-586-7	Sequence 7, Appli
c 934	10.4	49.5	26	2	US-08-233-030-55	Sequence 55, Appl
c 935	10.4	49.5	26	2	US-08-298-523-4	Sequence 4, Appli
c 936	10.4	49.5	26	3	US-09-940-244-316	Sequence 316, App
c 937	10.4	49.5	26	3	US-09-641-690A-7	Sequence 7, Appli
c 938	10.4	49.5	26	7	PCT-US95-10226-4	Sequence 4, Appli
c 939	10.4	49.5	27	2	US-08-435-350-11	Sequence 11, Appl
c 940	10.4	49.5	27	2	US-08-592-126-49	Sequence 49, Appl
c 941	10.4	49.5	27	3	US-08-584-040-856	Sequence 856, App
c 942	10.4	49.5	27	3	US-08-584-040-3524	Sequence 3524, Ap
c 943	10.4	49.5	27	3	US-08-584-040-7212	Sequence 7212, Ap
c 944	10.4	49.5	27	3	US-08-679-645-1045	Sequence 1045, Ap
c 945	10.4	49.5	27	3	US-09-168-595-49	Sequence 49, Appl
c 946	10.4	49.5	27	3	US-09-947-150-4	Sequence 4, Appli
c 947	10.4	49.5	29	3	US-09-304-232-894	Sequence 894, App
c 948	10.4	49.5	30	2	US-08-173-209A-3	Sequence 3, Appli
c 949	10.4	49.5	30	2	US-08-384-708A-43	Sequence 43, Appl
c 950	10.4	49.5	30	3	US-08-722-719-37	Sequence 37, Appl
c 951	10.4	49.5	30	3	US-08-946-138-25	Sequence 25, Appl
c 952	10.4	49.5	30	3	US-09-130-663-8	Sequence 8, Appli
c 953	10.4	49.5	30	3	US-08-765-856-10	Sequence 10, Appl
c 954	10.4	49.5	30	3	US-09-432-335-8	Sequence 8, Appli
c 955	10.4	49.5	30	3	US-08-935-009A-12	Sequence 12, Appl
c 956	10.4	49.5	30	3	US-08-687-421-43	Sequence 43, Appl
c 957	10.4	49.5	30	3	US-09-130-546D-25	Sequence 25, Appl
c 958	10.4	49.5	30	3	US-09-614-022-8	Sequence 8, Appli
c 959	10.4	49.5	30	3	US-09-334-951-37	Sequence 37, Appl
c 960	10.4	49.5	30	3	US-09-334-923A-37	Sequence 37, Appl
c 961	10.4	49.5	30	3	US-09-227-694B-25	Sequence 25, Appl
c 962	10.4	49.5	30	3	US-09-446-081-27	Sequence 27, Appl
c 963	10.4	49.5	30	3	US-09-334-954A-37	Sequence 37, Appl
c 964	10.4	49.5	30	3	US-09-907-795-19	Sequence 19, Appl
c 965	10.4	49.5	30	3	US-08-442-423-43	Sequence 43, Appl
c 966	10.4	49.5	30	3	US-10-124-884-19	Sequence 19, Appl
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c 968	10.4	49.5	30	3	US-09-908-130-19	Sequence 19, Appl
c 969	10.4	49.5	30	3	US-10-321-188-19	Sequence 19, Appl
c 970	10.4	49.5	30	3	US-09-673-716-3	Sequence 3, Appli
c 971	10.4	49.5	30	4	US-09-908-131-19	Sequence 19, Appl
c 972	10.2	48.6	15	3	US-09-081-646-215	Sequence 215, App
c 973	10.2	48.6	17	3	US-08-584-040-7860	Sequence 7860, Ap
c 974	10.2	48.6	17	3	US-09-371-772B-3643	Sequence 3643, Ap
c 975	10.2	48.6	17	3	US-09-866-108A-503	Sequence 503, App
c 976	10.2	48.6	17	3	US-09-866-108A-6376	Sequence 6376, Ap

	977	10.2	48.6	17	3	US-09-685-664B-3643	Sequence 3643, Ap
c	978	10.2	48.6	17	5	US-10-156-306B-4913	Sequence 4913, Ap
	979	10.2	48.6	17	5	US-10-138-674B-3643	Sequence 3643, Ap
c	980	10.2	48.6	18	2	US-08-463-224-10	Sequence 10, Appl
c	981	10.2	48.6	18	2	US-08-463-377-10	Sequence 10, Appl
c	982	10.2	48.6	18	3	US-08-577-081A-67	Sequence 67, Appl
c	983	10.2	48.6	18	3	US-09-292-534-15	Sequence 15, Appl
c	984	10.2	48.6	18	3	US-09-422-978-11574	Sequence 11574, A
	985	10.2	48.6	19	2	US-08-452-262-12	Sequence 12, Appl
	986	10.2	48.6	19	2	US-08-734-550-12	Sequence 12, Appl
	987	10.2	48.6	19	3	US-09-696-791-2974	Sequence 2974, Ap
	988	10.2	48.6	19	5	US-09-543-679A-1308	Sequence 1308, Ap
	989	10.2	48.6	19	7	PCT-US96-07528-12	Sequence 12, Appl
c	990	10.2	48.6	20	2	US-08-118-441-3	Sequence 3, Appli
c	991	10.2	48.6	20	3	US-08-974-180-4	Sequence 4, Appli
c	992	10.2	48.6	20	3	US-08-338-579A-3	Sequence 3, Appli
	993	10.2	48.6	20	3	US-08-909-954-5	Sequence 5, Appli
	994	10.2	48.6	20	3	US-08-909-954-13	Sequence 13, Appl
c	995	10.2	48.6	20	3	US-09-280-799-87	Sequence 87, Appl
c	996	10.2	48.6	20	3	US-09-280-799-143	Sequence 143, App
	997	10.2	48.6	20	3	US-09-226-012-82	Sequence 82, Appl
c	998	10.2	48.6	20	3	US-09-277-020-11	Sequence 11, Appl
c	999	10.2	48.6	20	3	US-09-488-074-6	Sequence 6, Appli
	1000	10.2	48.6	20	3	US-09-528-404-1	Sequence 1, Appli

#### ALIGNMENTS

#### RESULT 1

US-07-702-163B-2

; Sequence 2, Application US/07702163B

; Patent No. 5271941

; GENERAL INFORMATION:

; APPLICANT: Yoon S. Cho-Chung

; TITLE OF INVENTION: ANTISENSE OLIGONUCLEOTIDES FOR TREATMENT OF CANCER

; NUMBER OF SEQUENCES: 7

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Sterne, Kessler, Goldstein and Fox

; STREET: 1225 Connecticut Avenue, N.W.

; CITY: Washington

; STATE: D.C.

; COUNTRY: USA

; ZIP: 20036

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: DOS

; SOFTWARE: PatentIn

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/07/702,163B

; FILING DATE: 19910520

; CLASSIFICATION: 424

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: none

; FILING DATE: none

; ATTORNEY/AGENT INFORMATION:

; NAME: Robert W. Esmond

; REGISTRATION NUMBER: 32,893

; REFERENCE/DOCKET NUMBER: 1350.0040004

; TELECOMMUNICATION INFORMATION:

```

; TELEPHONE: (202)466-0800
; TELEFAX: (202)833-8716
; TELEX: 248636 SS1
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 18 bases
; TYPE: NUCLEIC ACID
; STRANDEDNESS: Single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; ANTI-SENSE: yes
US-07-702-163B-2

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Query Match          81.0%; Score 17; DB 2; Length 18;
Best Local Similarity 76.5%; Pred. No. 1.4e+02;
Matches 13; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

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Qy      5 GCGUGCCUCCUCACUGG 21
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Db      1 GCGTGCCTCCTCACTGG 17

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RESULT 2
US-08-060-984-2
; Sequence 2, Application US/08060984
; Patent No. 5627158
; GENERAL INFORMATION:
; APPLICANT: Yoon S. Cho-Chung
; TITLE OF INVENTION: ANTISENSE OLIGONUCLEOTIDES FOR TREATMENT OF CANCER
; NUMBER OF SEQUENCES: 7
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Sterne, Kessler, Goldstein and Fox
; STREET: 1225 Connecticut Avenue, N.W.
; CITY: Washington
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: PatentIn
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/060,984
; FILING DATE: 19930514
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/702,163
; FILING DATE: May 20, 1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Robert W. Esmond
; REGISTRATION NUMBER: 32,893
; REFERENCE/DOCKET NUMBER: 1350.0050003
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202)466-0800
; TELEFAX: (202)833-8716
; TELEX: 248636 SS1
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 18 bases
; TYPE: NUCLEIC ACID

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; STRANDEDNESS: Single  
; TOPOLOGY: linear  
; MOLECULE TYPE: DNA  
; ANTI-SENSE: yes  
US-08-060-984-2

Query Match 81.0%; Score 17; DB 2; Length 18;  
Best Local Similarity 76.5%; Pred. No. 1.4e+02;  
Matches 13; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 5 GCGUGCCUCCUCACUGG 21  
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Db 1 GCGTGCCTCCTCACTGG 17

RESULT 3

US-08-383-742-2

; Sequence 2, Application US/08383742  
; Patent No. 5691317

; GENERAL INFORMATION:

; APPLICANT: Cho-Chung, Yoon Sang  
; TITLE OF INVENTION: Antisense Oligonucleotides for the Treatment of  
; TITLE OF INVENTION: Cancer  
; NUMBER OF SEQUENCES: 7  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX  
; STREET: 1100 New York Ave., N.W.  
; CITY: Washington  
; STATE: D.C.  
; COUNTRY: USA  
; ZIP: 20005

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: PatentIn

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/383,742  
; FILING DATE: herewith  
; CLASSIFICATION: 514

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 08/060,984  
; FILING DATE: May 14, 1993

; ATTORNEY/AGENT INFORMATION:

; NAME: Robert W. Esmond  
; REGISTRATION NUMBER: 32,893  
; REFERENCE/DOCKET NUMBER: 1350.0010004

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (202) 371-2600  
; TELEFAX: (202) 371-2540

; INFORMATION FOR SEQ ID NO: 2:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 18 bases  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: DNA  
; ANTI-SENSE: YES

US-08-383-742-2

Query Match 81.0%; Score 17; DB 2; Length 18;

Best Local Similarity 76.5%; Pred. No. 1.4e+02;  
Matches 13; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 5 GCGUGCCUCCUCACUGG 21  
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Db 1 GCGTGCCTCCTCACTGG 17

RESULT 4

US-08-532-979-1

; Sequence 1, Application US/08532979

; Patent No. 5969117

; GENERAL INFORMATION:

; APPLICANT: Agrawal, Sudhir

; TITLE OF INVENTION: MODIFIED PROTEIN KINASE A-SPECIFIC

; TITLE OF INVENTION: OLIGONUCLEOTIDES AND METHODS OF THEIR USE

; NUMBER OF SEQUENCES: 8

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Lappin & Kusmer

; STREET: 200 State Street

; CITY: Boston

; STATE: MA

; COUNTRY: USA

; ZIP: 02109

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.30

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/532,979

; FILING DATE:

; CLASSIFICATION: 536

; ATTORNEY/AGENT INFORMATION:

; NAME: Kerner, Ann-Louise

; REGISTRATION NUMBER: 33,523

; REFERENCE/DOCKET NUMBER: HYZ-050

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: 617-330-1300

; TELEFAX: 617-330-1311

; INFORMATION FOR SEQ ID NO: 1:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 18 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; MOLECULE TYPE: DNA

; HYPOTHETICAL: NO

; ANTI-SENSE: YES

US-08-532-979-1

Query Match 81.0%; Score 17; DB 2; Length 18;  
Best Local Similarity 76.5%; Pred. No. 1.4e+02;  
Matches 13; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 5 GCGUGCCUCCUCACUGG 21  
|||:||||:|:|:|:|  
Db 1 GCGTGCCTCCTCACTGG 17

RESULT 5

US-08-532-979-4

; Sequence 4, Application US/08532979  
; Patent No. 5969117  
; GENERAL INFORMATION:  
; APPLICANT: Agrawal, Sudhir  
; TITLE OF INVENTION: MODIFIED PROTEIN KINASE A-SPECIFIC  
; TITLE OF INVENTION: OLIGONUCLEOTIDES AND METHODS OF THEIR USE  
; NUMBER OF SEQUENCES: 8  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Lappin & Kusmer  
; STREET: 200 State Street  
; CITY: Boston  
; STATE: MA  
; COUNTRY: USA  
; ZIP: 02109  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/532,979  
; FILING DATE:  
; CLASSIFICATION: 536  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Kerner, Ann-Louise  
; REGISTRATION NUMBER: 33,523  
; REFERENCE/DOCKET NUMBER: HYZ-050  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 617-330-1300  
; TELEFAX: 617-330-1311  
; INFORMATION FOR SEQ ID NO: 4:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 18 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: DNA/RNA  
; HYPOTHETICAL: NO  
; ANTI-SENSE: YES  
US-08-532-979-4

Query Match 81.0%; Score 17; DB 2; Length 18;  
Best Local Similarity 88.2%; Pred. No. 1.4e+02;  
Matches 15; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 5 GCGUGCCUCCUCACUGG 21  
|||||||:|:|||||  
Db 1 GCGUGCCTCCTCACUGG 17

RESULT 6

US-08-532-979-6

; Sequence 6, Application US/08532979  
; Patent No. 5969117  
; GENERAL INFORMATION:  
; APPLICANT: Agrawal, Sudhir  
; TITLE OF INVENTION: MODIFIED PROTEIN KINASE A-SPECIFIC  
; TITLE OF INVENTION: OLIGONUCLEOTIDES AND METHODS OF THEIR USE  
; NUMBER OF SEQUENCES: 8  
; CORRESPONDENCE ADDRESS:

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; ADDRESSEE: Lappin & Kusmer
; STREET: 200 State Street
; CITY: Boston
; STATE: MA
; COUNTRY: USA
; ZIP: 02109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/532,979
; FILING DATE:
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: Kerner, Ann-Louise
; REGISTRATION NUMBER: 33,523
; REFERENCE/DOCKET NUMBER: HYZ-050
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617-330-1300
; TELEFAX: 617-330-1311
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 18 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA/RNA
; HYPOTHETICAL: NO
; ANTI-SENSE: YES
US-08-532-979-6

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Query Match          81.0%; Score 17; DB 2; Length 18;
Best Local Similarity 88.2%; Pred. No. 1.4e+02;
Matches 15; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

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QY      5 GCGUGCCUCCUCACUGG 21
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Db      1 GCGTGCCUCCUCCACTGG 17

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RESULT 7
US-09-540-699-1
; Sequence 1, Application US/09540699
; Patent No. 6383752
; GENERAL INFORMATION:
; APPLICANT: Agrawal, Sudhir
; APPLICANT: Kandimalla, Ekambar R.
; TITLE OF INVENTION: Pseudo-Cyclic Oligonucleobases
; FILE REFERENCE: 99,128-B
; CURRENT APPLICATION NUMBER: US/09/540,699
; CURRENT FILING DATE: 2000-03-31
; PRIOR APPLICATION NUMBER: US 60/127,138
; PRIOR FILING DATE: 1999-03-31
; PRIOR APPLICATION NUMBER: US 60/174,642
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
; LENGTH: 18

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Best Local Similarity 88.2%; Pred. No. 1.4e+02;  
Matches 15; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

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1 GCGUGCCTCCTCACUGG 17

SULT 9  
-09-321-249-20

://es/ScoreAccessWeb/GetItem.action?AppId=10728491&seqId=836596&ItemName=u... 11/21/06

TYPE: DNA  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Description of Artificial Sequence:Oligonucleotide  
OTHER INFORMATION: that is complementary to the mRNA of regulatory  
OTHER INFORMATION: subunit of protein kinase A  
NAME/KEY: misc\_feature  
LOCATION: (1)..(18)  
OTHER INFORMATION: /note= "All phosphorothioate internucleotide  
OTHER INFORMATION: linkages"  
-09-540-699-1

Query Match 81.0%; Score 17; DB 3; Length 18;  
Best Local Similarity 76.5%; Pred. No. 1.4e+02;  
Matches 13; Conservative 4; Mismatches 0; Indels 0; Gaps 0;  
5 GCGUGCCUCCUCACUGG 21  
|||:||||:|:|||||  
1 GCGTGCCTCCTCACTGG 17

SULT 8  
-09-587-934B-20  
Sequence 20, Application US/09587934B  
Patent No. 6608035

GENERAL INFORMATION:  
APPLICANT: AGRAWAL, Sudhir  
APPLICANT: DIASIO, Robert B.  
APPLICANT: ZHANG, Ruiwen  
TITLE OF INVENTION: A Method of Down-Regulating Gene Expression  
FILE REFERENCE: HYZ-030CPCN2(47508-734)  
CURRENT APPLICATION NUMBER: US/09/587,934B  
CURRENT FILING DATE: 2000-06-06  
PRIOR APPLICATION NUMBER: US 08/758,005  
PRIOR FILING DATE: 1996-11-27  
PRIOR APPLICATION NUMBER: US 08/709,910  
PRIOR FILING DATE: 1996-09-09  
PRIOR APPLICATION NUMBER: US 08/328,520  
PRIOR FILING DATE: 1994-10-25  
NUMBER OF SEQ ID NOS: 21  
SOFTWARE: PatentIn version 3.0

SEQ ID NO 20  
LENGTH: 18  
TYPE: DNA  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Antisense  
OTHER INFORMATION: DNA/RNA  
-09-587-934B-20

```

; Sequence 20, Application US/09321249
; Patent No. 6645943
; GENERAL INFORMATION:
; APPLICANT: AGRAWAL, Sudhir
; APPLICANT: DIASIO, Robert H.
; APPLICANT: ZHANG, Ruiwen
; TITLE OF INVENTION: A Method of Down-Regulating Gene Expression
; FILE REFERENCE: HYZ-030CIPCN (47508-437)
; CURRENT APPLICATION NUMBER: US/09/321,249
; CURRENT FILING DATE: 1999-05-27
; PRIOR APPLICATION NUMBER: US 08/758,005
; PRIOR FILING DATE: 1996-11-27
; PRIOR APPLICATION NUMBER: US 08/709,910
; PRIOR FILING DATE: 1996-09-09
; PRIOR APPLICATION NUMBER: US 08/328,520
; PRIOR FILING DATE: 1994-10-25
; NUMBER OF SEQ ID NOS: 21
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 20
; LENGTH: 18
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense
; OTHER INFORMATION: DNA/RNA
US-09-321-249-20

```

```

Query Match          81.0%; Score 17; DB 3; Length 18;
Best Local Similarity 88.2%; Pred. No. 1.4e+02;
Matches 15; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

```

```

Qy      5 GCGUGCCUCCUCACUGG 21
        |||||:|:|||||
Db      1 GCGUGCCTCCTCACUGG 17

```

```

RESULT 10
US-09-835-370-39
; Sequence 39, Application US/09835370
; Patent No. 6777544
; GENERAL INFORMATION:
; APPLICANT: UHLMANN, EUGEN
; APPLICANT: BREIPOHL, GERHARD
; APPLICANT: WILL, DAVID W
; TITLE OF INVENTION: POLYAMIDE NUCLEIC ACID DERIVATIVES AND AGENTS AND
; TITLE OF INVENTION: PROCESSES FOR PREPARING THEM
; FILE REFERENCE: 02481.1742 SEQUENCE LISTING
; CURRENT APPLICATION NUMBER: US/09/835,370
; CURRENT FILING DATE: 2001-04-17
; NUMBER OF SEQ ID NOS: 64
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 39
; LENGTH: 18
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: nucleotide
; OTHER INFORMATION: base sequence of PNA derivatives that bind to
; OTHER INFORMATION: viral and cellular targets
US-09-835-370-39

```

Query Match 81.0%; Score 17; DB 3; Length 18;  
Best Local Similarity 76.5%; Pred. No. 1.4e+02;  
Matches 13; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 5 GCGUGCCUCCUCACUGG 21  
|||:||||:|:|:|:|  
Db 1 GCGTGCCTCCTCACTGG 17

RESULT 11

US-09-108-673A-39

; Sequence 39, Application US/09108673A

; Patent No. 6887906

; GENERAL INFORMATION:

; APPLICANT: Ching-Leou Teng and Greg Hardee

; TITLE OF INVENTION: Compositions and Methods for the Delivery of

; TITLE OF INVENTION: Oligonucleotides Via the Alimentary Canal

; NUMBER OF SEQUENCES: 132

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Woodcock Washburn Kurtz Mackiewicz & No. 6887906ris LLP

; STREET: One Liberty Place, 46th Floor

; CITY: Philadelphia

; STATE: PA

; COUNTRY: USA

; ZIP: 19103

; COMPUTER READABLE FORM:

; MEDIUM TYPE: DISKETTE, 3.5 INCH, 1.44 MB STORAGE

; COMPUTER: IBM PS/2

; OPERATING SYSTEM: PC-DOS

; SOFTWARE: WORDPERFECT 6.1

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/09/108,673A

; FILING DATE: July 1, 1998

; CLASSIFICATION: 514

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 08/886,829

; FILING DATE: 01-JUL-1997

; ATTORNEY/AGENT INFORMATION:

; NAME: Paul K. Legaard

; REGISTRATION NUMBER: 38,534

; REFERENCE/DOCKET NUMBER: ISIS-3105

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (215) 568-3100

; TELEFAX: (215) 568 3439

; INFORMATION FOR SEQ ID NO: 39:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 18 base pairs

; TYPE: Nucleic Acid

; STRANDEDNESS: Single

; TOPOLOGY: Linear

; ANTI-SENSE: Yes

; PUBLICATION INFORMATION:

; DOCUMENT NUMBER: WO 97/11171 (SEQ ID NO:1)

; FILING DATE: 19-SEP-1996

; PUBLICATION DATE: 27-MAR-1997

US-09-108-673A-39

Query Match 81.0%; Score 17; DB 3; Length 18;  
Best Local Similarity 76.5%; Pred. No. 1.4e+02;  
Matches 13; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 5 GCGUGCCUCCUCACUGG 21  
| | | : | | | : | | : | | : | |  
Db 1 GCGTGCCTCCTCACTGG 17

RESULT 12

US-09-108-673A-40

; Sequence 40, Application US/09108673A

; Patent No. 6887906

; GENERAL INFORMATION:

; APPLICANT: Ching-Leou Teng and Greg Hardee

; TITLE OF INVENTION: Compositions and Methods for the Delivery of

; TITLE OF INVENTION: Oligonucleotides Via the Alimentary Canal

; NUMBER OF SEQUENCES: 132

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Woodcock Washburn Kurtz Mackiewicz & No. 6887906ris LLP

; STREET: One Liberty Place, 46th Floor

; CITY: Philadelphia

; STATE: PA

; COUNTRY: USA

; ZIP: 19103

; COMPUTER READABLE FORM:

; MEDIUM TYPE: DISKETTE, 3.5 INCH, 1.44 MB STORAGE

; COMPUTER: IBM PS/2

; OPERATING SYSTEM: PC-DOS

; SOFTWARE: WORDPERFECT 6.1

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/09/108,673A

; FILING DATE: July 1, 1998

; CLASSIFICATION: 514

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 08/886,829

; FILING DATE: 01-JUL-1997

; ATTORNEY/AGENT INFORMATION:

; NAME: Paul K. Legaard

; REGISTRATION NUMBER: 38,534

; REFERENCE/DOCKET NUMBER: ISIS-3105

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (215) 568-3100

; TELEFAX: (215) 568 3439

; INFORMATION FOR SEQ ID NO: 40:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 18 base pairs

; TYPE: Nucleic Acid

; STRANDEDNESS: Single

; TOPOLOGY: Linear

; ANTI-SENSE: Yes

; PUBLICATION INFORMATION:

; DOCUMENT NUMBER: WO 97/11171 (SEQ ID NO:4)

; FILING DATE: 19-SEP-1996

; PUBLICATION DATE: 27-MAR-1997

US-09-108-673A-40

Query Match 81.0%; Score 17; DB 3; Length 18;

Best Local Similarity 88.2%; Pred. No. 1.4e+02;

Matches 15; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 5 GCGUGCCUCCUCACUGG 21

| | | | | : | | : | | | |

Db 1 GCGUGCCTCCTCACUGG 17

```

RESULT 13
US-09-108-673A-41
; Sequence 41, Application US/09108673A
; Patent No. 6887906
; GENERAL INFORMATION:
; APPLICANT: Ching-Leou Teng and Greg Hardee
; TITLE OF INVENTION: Compositions and Methods for the Delivery of
; TITLE OF INVENTION: Oligonucleotides Via the Alimentary Canal
; NUMBER OF SEQUENCES: 132
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Woodcock Washburn Kurtz Mackiewicz & No. 6887906ris LLP
; STREET: One Liberty Place, 46th Floor
; CITY: Philadelphia
; STATE: PA
; COUNTRY: USA
; ZIP: 19103
; COMPUTER READABLE FORM:
; MEDIUM TYPE: DISKETTE, 3.5 INCH, 1.44 MB STORAGE
; COMPUTER: IBM PS/2
; OPERATING SYSTEM: PC-DOS
; SOFTWARE: WORDPERFECT 6.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/108,673A
; FILING DATE: July 1, 1998
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/886,829
; FILING DATE: 01-JUL-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Paul K. Legaard
; REGISTRATION NUMBER: 38,534
; REFERENCE/DOCKET NUMBER: ISIS-3105
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (215) 568-3100
; TELEFAX: (215) 568 3439
; INFORMATION FOR SEQ ID NO: 41:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 18 base pairs
; TYPE: Nucleic Acid
; STRANDEDNESS: Single
; TOPOLOGY: Linear
; ANTI-SENSE: Yes
; PUBLICATION INFORMATION:
; DOCUMENT NUMBER: WO 97/11171 (SEQ ID NO:6)
; FILING DATE: 19-SEP-1996
; PUBLICATION DATE: 27-MAR-1997
US-09-108-673A-41

Query Match          81.0%; Score 17; DB 3; Length 18;
Best Local Similarity 88.2%; Pred. No. 1.4e+02;
Matches 15; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

```

```

Qy      5 GCGUGCCUCCUCACUGG 21
      |||:|||||||:|
Db      1 GCGTGCCUCCUCCACTGG 17

```

```

RESULT 14
US-09-835-371-39
; Sequence 39, Application US/09835371

```

; Patent No. 6905820  
; GENERAL INFORMATION:  
; APPLICANT: UHLMANN, Eugen  
; APPLICANT: BREIPOHL, Gerhard  
; APPLICANT: WILL, David W  
; TITLE OF INVENTION: POLYAMIDE NUCLEIC ACID DERIVATIVES, AND AGENTS AND  
; TITLE OF INVENTION: PROCESSES FOR PREPARING THEM  
; FILE REFERENCE: 02481.1743 SEQUENCE LISTING  
; CURRENT APPLICATION NUMBER: US/09/835,371  
; CURRENT FILING DATE: 2001-04-17  
; NUMBER OF SEQ ID NOS: 53  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 39  
; LENGTH: 18  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: base sequence  
; OTHER INFORMATION: of PNA targeting CMV  
US-09-835-371-39

Query Match 81.0%; Score 17; DB 3; Length 18;  
Best Local Similarity 76.5%; Pred. No. 1.4e+02;  
Matches 13; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 5 GCGUGCCUCCUCACUGG 21  
|||:||||:|:|:|  
Db 1 GCGTGCCTCCTCACTGG 17

# RESULT 15

US-09-777-526A-20

; Sequence 20, Application US/09777526A  
; Patent No. 6936593  
; GENERAL INFORMATION:  
; APPLICANT: AGRAWAL, Sudhir  
; APPLICANT: DIASIO, Robert H.  
; APPLICANT: ZHANG, Ruiwen  
; TITLE OF INVENTION: A Method of Down-Regulating Gene Expression  
; FILE REFERENCE: HYZ-030CPCN3 (47508-518)  
; CURRENT APPLICATION NUMBER: US/09/777,526A  
; CURRENT FILING DATE: 2002-06-04  
; PRIOR APPLICATION NUMBER: US 08/758,005  
; PRIOR FILING DATE: 1996-11-27  
; PRIOR APPLICATION NUMBER: US 08/709,910  
; PRIOR FILING DATE: 1996-09-09  
; PRIOR APPLICATION NUMBER: US 08/328,520  
; PRIOR FILING DATE: 1994-10-25  
; NUMBER OF SEQ ID NOS: 21  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 20  
; LENGTH: 18  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense  
; OTHER INFORMATION: DNA/RNA  
US-09-777-526A-20

Query Match 81.0%; Score 17; DB 3; Length 18;  
Best Local Similarity 88.2%; Pred. No. 1.4e+02;

Matches 15; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 5 GCGUGCCUCCUCACUGG 21  
|||||||:|:|||||  
Db 1 GCGUGCCTCCTCACUGG 17

RESULT 16

US-09-167-375-15

; Sequence 15, Application US/09167375B  
; Patent No. 6291438  
; GENERAL INFORMATION:  
; APPLICANT: Jui H. Wang  
; TITLE OF INVENTION: Antiviral anticancer poly-substituted phenyl derivatized oligor  
; TITLE OF INVENTION: methods for their use.  
; FILE REFERENCE: WNGJ 2002 (CIP-1)  
; CURRENT APPLICATION NUMBER: US/09/167,375B  
; CURRENT FILING DATE: 1998-10-06  
; NUMBER OF SEQ ID NOS: 26  
; SEQ ID NO 15  
; LENGTH: 20  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; LOCATION: Portion of the RI/PKA gene  
; OTHER INFORMATION: Complementary to a portion of the RI/PKA gene  
US-09-167-375-15

Query Match 81.0%; Score 17; DB 3; Length 20;  
Best Local Similarity 100.0%; Pred. No. 1.4e+02;  
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 5 GCGUGCCUCCUCACUGG 21  
|||||||  
Db 3 GCGUGCCUCCUCACUGG 19

RESULT 17

US-09-167-375-18/c

; Sequence 18, Application US/09167375B  
; Patent No. 6291438  
; GENERAL INFORMATION:  
; APPLICANT: Jui H. Wang  
; TITLE OF INVENTION: Antiviral anticancer poly-substituted phenyl derivatized oligor  
; TITLE OF INVENTION: methods for their use.  
; FILE REFERENCE: WNGJ 2002 (CIP-1)  
; CURRENT APPLICATION NUMBER: US/09/167,375B  
; CURRENT FILING DATE: 1998-10-06  
; NUMBER OF SEQ ID NOS: 26  
; SEQ ID NO 18  
; LENGTH: 20  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; LOCATION: Portion of the RI/PKA gene  
; OTHER INFORMATION: Sense sequence  
US-09-167-375-18

Query Match 81.0%; Score 17; DB 3; Length 20;  
Best Local Similarity 76.5%; Pred. No. 1.4e+02;  
Matches 13; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 5 GCGUGCCUCCUCACUGG 21  
|||:|:|:|:|:|:|  
Db 20 GCGTGCCTCCTCACTGG 4

RESULT 18

US-09-540-699-6

; Sequence 6, Application US/09540699  
; Patent No. 6383752  
; GENERAL INFORMATION:  
; APPLICANT: Agrawal, Sudhir  
; APPLICANT: Kandimalla, Ekambar R.  
; TITLE OF INVENTION: Pseudo-Cyclic Oligonucleobases  
; FILE REFERENCE: 99,128-B  
; CURRENT APPLICATION NUMBER: US/09/540,699  
; CURRENT FILING DATE: 2000-03-31  
; PRIOR APPLICATION NUMBER: US 60/127,138  
; PRIOR FILING DATE: 1999-03-31  
; PRIOR APPLICATION NUMBER: US 60/174,642  
; PRIOR FILING DATE: 2000-01-05  
; NUMBER OF SEQ ID NOS: 26  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 6  
; LENGTH: 23  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence:Oligonucleotide  
; OTHER INFORMATION: that is complementary to the mRNA of regulatory  
; OTHER INFORMATION: subunit of protein kinase A  
; NAME/KEY: misc\_feature  
; LOCATION: (19)..(23)  
; OTHER INFORMATION: /note= "These bases are listed 3'>5' left to  
; OTHER INFORMATION: right."  
; NAME/KEY: misc\_feature  
; LOCATION: (18)..(19)  
; OTHER INFORMATION: /note= "3'-3' internucleotide linkage"  
; NAME/KEY: misc\_feature  
; LOCATION: (1)..(18)  
; OTHER INFORMATION: /note= "All phosphorothioate internucleotide  
; OTHER INFORMATION: linkages"

US-09-540-699-6

Query Match 81.0%; Score 17; DB 3; Length 23;  
Best Local Similarity 76.5%; Pred. No. 1.4e+02;  
Matches 13; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 5 GCGUGCCUCCUCACUGG 21  
|||:|:|:|:|:|:|  
Db 1 GCGTGCCTCCTCACTGG 17

RESULT 19

US-09-540-699-10

; Sequence 10, Application US/09540699  
; Patent No. 6383752  
; GENERAL INFORMATION:  
; APPLICANT: Agrawal, Sudhir  
; APPLICANT: Kandimalla, Ekambar R.  
; TITLE OF INVENTION: Pseudo-Cyclic Oligonucleobases



```

; FILE REFERENCE: 99,128-B
; CURRENT APPLICATION NUMBER: US/09/540,699
; CURRENT FILING DATE: 2000-03-31
; PRIOR APPLICATION NUMBER: US 60/127,138
; PRIOR FILING DATE: 1999-03-31
; PRIOR APPLICATION NUMBER: US 60/174,642
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 10
; LENGTH: 23
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:Oligonucleotide
; OTHER INFORMATION: that is complementary to the mRNA of regulatory
; OTHER INFORMATION: subunit of protein kinase A
; NAME/KEY: misc_feature
; LOCATION: (19)..(23)
; OTHER INFORMATION: /note= "These bases are listed 3'-->5' left to
; OTHER INFORMATION: right."
; NAME/KEY: misc_feature
; LOCATION: (18)..(19)
; OTHER INFORMATION: /note= "3'-3' internucleotide linkage"
; NAME/KEY: misc_feature
; LOCATION: (1)..(18)
; OTHER INFORMATION: /note= "All phosphorothioate internucleotide
; OTHER INFORMATION: linkages"
US-09-540-699-10

```

```

Query Match          81.0%; Score 17; DB 3; Length 23;
Best Local Similarity 76.5%; Pred. No. 1.4e+02;
Matches 13; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

```

```

Qy      5 GCGUGCCUCCUCACUGG 21
        |||:|||:||:||||:|
Db      1 GCGTGCCTCCTCACTGG 17

```

#### RESULT 20

US-09-540-699-4

```

; Sequence 4, Application US/09540699
; Patent No. 6383752
; GENERAL INFORMATION:
; APPLICANT: Agrawal, Sudhir
; APPLICANT: Kandimalla, Ekambar R.
; TITLE OF INVENTION: Pseudo-Cyclic Oligonucleobases
; FILE REFERENCE: 99,128-B
; CURRENT APPLICATION NUMBER: US/09/540,699
; CURRENT FILING DATE: 2000-03-31
; PRIOR APPLICATION NUMBER: US 60/127,138
; PRIOR FILING DATE: 1999-03-31
; PRIOR APPLICATION NUMBER: US 60/174,642
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 4
; LENGTH: 24
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:

```

```

; OTHER INFORMATION: Description of Artificial Sequence:Oligonucleotide
; OTHER INFORMATION: that is complementary to the mRNA of regulatory
; OTHER INFORMATION: subunit of protein kinase A
; NAME/KEY: misc_feature
; LOCATION: (19)..(24)
; OTHER INFORMATION: /note= "These bases are listed 3'>5' left to
; OTHER INFORMATION: right."
; NAME/KEY: misc_feature
; LOCATION: (18)..(19)
; OTHER INFORMATION: /note= "3'>3' internucleotide linkage"
US-09-540-699-4

```

```

Query Match          81.0%; Score 17; DB 3; Length 24;
Best Local Similarity 76.5%; Pred. No. 1.4e+02;
Matches 13; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

```

```

QY      5 GCGUGCCUCCUCACUGG 21
        |||:|||:||:|||:|
Db      1 GCGTGCCTCCTCACTGG 17

```

# RESULT 21

US-09-540-699-7

```

; Sequence 7, Application US/09540699
; Patent No. 6383752
; GENERAL INFORMATION:
; APPLICANT: Agrawal, Sudhir
; APPLICANT: Kandimalla, Ekambar R.
; TITLE OF INVENTION: Pseudo-Cyclic Oligonucleobases
; FILE REFERENCE: 99,128-B
; CURRENT APPLICATION NUMBER: US/09/540,699
; CURRENT FILING DATE: 2000-03-31
; PRIOR APPLICATION NUMBER: US 60/127,138
; PRIOR FILING DATE: 1999-03-31
; PRIOR APPLICATION NUMBER: US 60/174,642
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 7
; LENGTH: 24
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:Oligonucleotide
; OTHER INFORMATION: that is complementary to the mRNA of regulatory
; OTHER INFORMATION: subunit of protein kinase A
; NAME/KEY: misc_feature
; LOCATION: (19)..(24)
; OTHER INFORMATION: /note= "These bases are listed 3'>5' left to
; OTHER INFORMATION: right."
; NAME/KEY: misc_feature
; LOCATION: (18)..(19)
; OTHER INFORMATION: /note= "3'-3' internucleotide linkage"
; NAME/KEY: misc_feature
; LOCATION: (1)..(18)
; OTHER INFORMATION: /note= "All phosphorothioate internucleotide
; OTHER INFORMATION: linkages"
US-09-540-699-7

```

```

Query Match          81.0%; Score 17; DB 3; Length 24;
Best Local Similarity 76.5%; Pred. No. 1.4e+02;

```

Matches 13; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 5 GCGUGCCUCCUCACUGG 21  
|||:||||:|:|:|:|  
Db 1 GCGTGCCTCCTCACTGG 17

RESULT 22

US-09-540-699-8

; Sequence 8, Application US/09540699

; Patent No. 6383752

; GENERAL INFORMATION:

; APPLICANT: Agrawal, Sudhir

; APPLICANT: Kandimalla, Ekambar R.

; TITLE OF INVENTION: Pseudo-Cyclic Oligonucleobases

; FILE REFERENCE: 99,128-B

; CURRENT APPLICATION NUMBER: US/09/540,699

; CURRENT FILING DATE: 2000-03-31

; PRIOR APPLICATION NUMBER: US 60/127,138

; PRIOR FILING DATE: 1999-03-31

; PRIOR APPLICATION NUMBER: US 60/174,642

; PRIOR FILING DATE: 2000-01-05

; NUMBER OF SEQ ID NOS: 26

; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 8

; LENGTH: 25

; TYPE: DNA

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Description of Artificial Sequence:Oligonucleotide

; OTHER INFORMATION: that is complementary to the mRNA of regulatory

; OTHER INFORMATION: subunit of protein kinase A

; NAME/KEY: misc\_feature

; LOCATION: (19)..(25)

; OTHER INFORMATION: /note= "These bases are listed 3'>5' left to

; OTHER INFORMATION: right."

; NAME/KEY: misc\_feature

; LOCATION: (18)..(19)

; OTHER INFORMATION: /note= "3'-3' internucleotide linkage"

; NAME/KEY: misc\_feature

; LOCATION: (1)..(18)

; OTHER INFORMATION: /note= "All phosphorothioate internucleotide

; OTHER INFORMATION: linkages"

US-09-540-699-8

Query Match 81.0%; Score 17; DB 3; Length 25;

Best Local Similarity 76.5%; Pred. No. 1.4e+02;

Matches 13; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 5 GCGUGCCUCCUCACUGG 21  
|||:||||:|:|:|:|  
Db 1 GCGTGCCTCCTCACTGG 17

RESULT 23

US-09-540-699-11

; Sequence 11, Application US/09540699

; Patent No. 6383752

; GENERAL INFORMATION:

; APPLICANT: Agrawal, Sudhir

; APPLICANT: Kandimalla, Ekambar R.

```

; TITLE OF INVENTION: Pseudo-Cyclic Oligonucleobases
; FILE REFERENCE: 99,128-B
; CURRENT APPLICATION NUMBER: US/09/540,699
; CURRENT FILING DATE: 2000-03-31
; PRIOR APPLICATION NUMBER: US 60/127,138
; PRIOR FILING DATE: 1999-03-31
; PRIOR APPLICATION NUMBER: US 60/174,642
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 11
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:Oligonucleotide
; OTHER INFORMATION: that is complementary to the mRNA of regulatory
; OTHER INFORMATION: subunit of protein kinase A
; NAME/KEY: misc_feature
; LOCATION: (19)..(25)
; OTHER INFORMATION: /note= "These bases are listed 3'-->5' left to
; OTHER INFORMATION: right."
; NAME/KEY: misc_feature
; LOCATION: (18)..(19)
; OTHER INFORMATION: /note= "3'-3' internucleotide linkage"
; NAME/KEY: misc_feature
; LOCATION: (1)..(18)
; OTHER INFORMATION: /note= "All phosphorothioate internucleotide
; OTHER INFORMATION: linkages"
US-09-540-699-11

```

```

Query Match          81.0%; Score 17; DB 3; Length 25;
Best Local Similarity 76.5%; Pred. No. 1.4e+02;
Matches 13; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

```

```

Qy      5 GCGUGCCUCCUCACUGG 21
        |||:||||:|:|:|:|
Db      1 GCGTGCCTCCTCACTGG 17

```

#### RESULT 24

US-09-540-699-9

```

; Sequence 9, Application US/09540699
; Patent No. 6383752
; GENERAL INFORMATION:
; APPLICANT: Agrawal, Sudhir
; APPLICANT: Kandimalla, Ekambar R.
; TITLE OF INVENTION: Pseudo-Cyclic Oligonucleobases
; FILE REFERENCE: 99,128-B
; CURRENT APPLICATION NUMBER: US/09/540,699
; CURRENT FILING DATE: 2000-03-31
; PRIOR APPLICATION NUMBER: US 60/127,138
; PRIOR FILING DATE: 1999-03-31
; PRIOR APPLICATION NUMBER: US 60/174,642
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 9
; LENGTH: 26
; TYPE: DNA
; ORGANISM: Artificial Sequence

```

```

; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:Oligonucleotide
; OTHER INFORMATION: that is complementary to the mRNA of regulatory
; OTHER INFORMATION: subunit of protein kinase A
; NAME/KEY: misc_feature
; LOCATION: (19)..(26)
; OTHER INFORMATION: /note= "These bases are listed 3'-->5' left to
; OTHER INFORMATION: right."
; NAME/KEY: misc_feature
; LOCATION: (18)..(19)
; OTHER INFORMATION: /note= "3'-3' internucleotide linkage"
; NAME/KEY: misc_feature
; LOCATION: (1)..(18)
; OTHER INFORMATION: /note= "All phosphorothioate internucleotide
; OTHER INFORMATION: linkages"
US-09-540-699-9

```

```

Query Match          81.0%; Score 17; DB 3; Length 26;
Best Local Similarity 76.5%; Pred. No. 1.4e+02;
Matches 13; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

```

```

Qy      5 GCGUGCCUCCUCACUGG 21
        |||:|||:||:|||:||
Db      1 GCGTGCCTCCTCACTGG 17

```

#### RESULT 25

```

US-09-690-364-100/c
; Sequence 100, Application US/09690364
; Patent No. 6468795
; GENERAL INFORMATION:
; APPLICANT: Hong Zhang
; APPLICANT: Andrew T. Watt
; TITLE OF INVENTION: ANTISENSE MODULATION OF APAF-1 EXPRESSION
; FILE REFERENCE: RTS-0190
; CURRENT APPLICATION NUMBER: US/09/690,364
; CURRENT FILING DATE: 2000-10-17
; NUMBER OF SEQ ID NOS: 100
; SEQ ID NO 100
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-09-690-364-100

```

```

Query Match          70.5%; Score 14.8; DB 3; Length 20;
Best Local Similarity 61.1%; Pred. No. 1.4e+03;
Matches 11; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

```

```

Qy      3 CUGCGUGCCUCCUCACUG 20
        |:| |:|||:||:|:| :|
Db      19 CTGAGTGCCTCCTCAGTG 2

```

#### RESULT 26

```

US-09-396-196G-40930
; Sequence 40930, Application US/09396196G
; Patent No. 6821724
; GENERAL INFORMATION:
; APPLICANT: Michael Mittmann

```

```

; APPLICANT: David Mack
; APPLICANT: David Lockhart
; APPLICANT: Affymetrix, Inc.
; TITLE OF INVENTION: Methods of Genetic Analysis
; FILE REFERENCE: 3101.1
; CURRENT APPLICATION NUMBER: US/09/396,196G
; CURRENT FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: 60/100,678
; PRIOR FILING DATE: 1998-09-17
; NUMBER OF SEQ ID NOS: 127806
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 40930
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Mus musculus
US-09-396-196G-40930

```

```

Query Match          70.5%; Score 14.8; DB 3; Length 25;
Best Local Similarity 66.7%; Pred. No. 1.4e+03;
Matches 12; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

```

```

QY      3 CUGCGUGCCUCCUCACUG 20
        |:| |:| | | |:| | | |:|
Db      4 CTGTGTGCCACCTCACTG 21

```

#### RESULT 27

```

US-09-540-699-5
; Sequence 5, Application US/09540699
; Patent No. 6383752
; GENERAL INFORMATION:
; APPLICANT: Agrawal, Sudhir
; APPLICANT: Kandimalla, Ekambar R.
; TITLE OF INVENTION: Pseudo-Cyclic Oligonucleobases
; FILE REFERENCE: 99,128-B
; CURRENT APPLICATION NUMBER: US/09/540,699
; CURRENT FILING DATE: 2000-03-31
; PRIOR APPLICATION NUMBER: US 60/127,138
; PRIOR FILING DATE: 1999-03-31
; PRIOR APPLICATION NUMBER: US 60/174,642
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
; LENGTH: 23
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:Oligonucleotide
; OTHER INFORMATION: that is complementary to the mRNA of regulatory
; OTHER INFORMATION: subunit of protein kinase A
; NAME/KEY: misc_feature
; LOCATION: (18)..(23)
; OTHER INFORMATION: /note= "These bases are listed 3'>5'left to
; OTHER INFORMATION: right."
; NAME/KEY: misc_feature
; LOCATION: (17)..(18)
; OTHER INFORMATION: /note= "3'-3' internucleotide linkage"
US-09-540-699-5

```

```

Query Match          68.6%; Score 14.4; DB 3; Length 23;

```

Best Local Similarity 75.0%; Pred. No. 2.2e+03;  
Matches 12; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

Qy 5 GCGUGCCUCCUCACUG 20  
|||:|:|:|:|:|  
Db 1 GCGTGCCTCCTCACGG 16

RESULT 28

US-09-396-196G-110880  
; Sequence 110880, Application US/09396196G  
; Patent No. 6821724  
; GENERAL INFORMATION:  
; APPLICANT: Michael Mittmann  
; APPLICANT: David Mack  
; APPLICANT: David Lockhart  
; APPLICANT: Affymetrix, Inc.  
; TITLE OF INVENTION: Methods of Genetic Analysis  
; FILE REFERENCE: 3101.1  
; CURRENT APPLICATION NUMBER: US/09/396,196G  
; CURRENT FILING DATE: 1999-09-15  
; PRIOR APPLICATION NUMBER: 60/100,678  
; PRIOR FILING DATE: 1998-09-17  
; NUMBER OF SEQ ID NOS: 127806  
; SOFTWARE: FastSEQ for Windows Version 4.0  
; SEQ ID NO 110880  
; LENGTH: 25  
; TYPE: DNA  
; ORGANISM: mus musculus  
US-09-396-196G-110880

Query Match 68.6%; Score 14.4; DB 3; Length 25;  
Best Local Similarity 68.8%; Pred. No. 2.2e+03;  
Matches 11; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

Qy 3 CUGCGUGCCUCCUCAC 18  
|:|:|:|:|:| :|:|  
Db 8 CTGCGTGCCTCTTCAC 23

RESULT 29

US-09-396-196G-110881  
; Sequence 110881, Application US/09396196G  
; Patent No. 6821724  
; GENERAL INFORMATION:  
; APPLICANT: Michael Mittmann  
; APPLICANT: David Mack  
; APPLICANT: David Lockhart  
; APPLICANT: Affymetrix, Inc.  
; TITLE OF INVENTION: Methods of Genetic Analysis  
; FILE REFERENCE: 3101.1  
; CURRENT APPLICATION NUMBER: US/09/396,196G  
; CURRENT FILING DATE: 1999-09-15  
; PRIOR APPLICATION NUMBER: 60/100,678  
; PRIOR FILING DATE: 1998-09-17  
; NUMBER OF SEQ ID NOS: 127806  
; SOFTWARE: FastSEQ for Windows Version 4.0  
; SEQ ID NO 110881  
; LENGTH: 25  
; TYPE: DNA  
; ORGANISM: mus musculus

US-09-396-196G-110881

Query Match 68.6%; Score 14.4; DB 3; Length 25;  
Best Local Similarity 68.8%; Pred. No. 2.2e+03;  
Matches 11; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

Qy 3 CUGCGUGCCUCCUCAC 18  
|:|:|:|:|:|:|:|:|  
Db 5 CTGCGTGCCTCTTCAC 20

RESULT 30

US-08-532-979-2

; Sequence 2, Application US/08532979  
; Patent No. 5969117  
; GENERAL INFORMATION:  
; APPLICANT: Agrawal, Sudhir  
; TITLE OF INVENTION: MODIFIED PROTEIN KINASE A-SPECIFIC  
; TITLE OF INVENTION: OLIGONUCLEOTIDES AND METHODS OF THEIR USE  
; NUMBER OF SEQUENCES: 8  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Lappin & Kusmer  
; STREET: 200 State Street  
; CITY: Boston  
; STATE: MA  
; COUNTRY: USA  
; ZIP: 02109  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/532,979  
; FILING DATE:  
; CLASSIFICATION: 536  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Kerner, Ann-Louise  
; REGISTRATION NUMBER: 33,523  
; REFERENCE/DOCKET NUMBER: HYZ-050  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 617-330-1300  
; TELEFAX: 617-330-1311  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 18 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: DNA  
; HYPOTHETICAL: NO  
; ANTI-SENSE: YES

US-08-532-979-2

Query Match 65.7%; Score 13.8; DB 2; Length 18;  
Best Local Similarity 70.6%; Pred. No. 4e+03;  
Matches 12; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

Qy 5 GCGUGCCUCCUCACUGG 21  
||| |||:|:|:|:|:|  
Db 1 GCGCGCCTCCTCGCTGG 17



RESULT 31  
 US-08-532-979-5  
 ; Sequence 5, Application US/08532979  
 ; Patent No. 5969117  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Agrawal, Sudhir  
 ; TITLE OF INVENTION: MODIFIED PROTEIN KINASE A-SPECIFIC  
 ; TITLE OF INVENTION: OLIGONUCLEOTIDES AND METHODS OF THEIR USE  
 ; NUMBER OF SEQUENCES: 8  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Lappin & Kusmer  
 ; STREET: 200 State Street  
 ; CITY: Boston  
 ; STATE: MA  
 ; COUNTRY: USA  
 ; ZIP: 02109  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: PatentIn Release #1.0, Version #1.30  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/532,979  
 ; FILING DATE:  
 ; CLASSIFICATION: 536  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Kerner, Ann-Louise  
 ; REGISTRATION NUMBER: 33,523  
 ; REFERENCE/DOCKET NUMBER: HYZ-050  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: 617-330-1300  
 ; TELEFAX: 617-330-1311  
 ; INFORMATION FOR SEQ ID NO: 5:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 18 base pairs  
 ; TYPE: nucleic acid  
 ; STRANDEDNESS: single  
 ; TOPOLOGY: linear  
 ; MOLECULE TYPE: DNA/RNA  
 ; HYPOTHETICAL: NO  
 ; ANTI-SENSE: YES  
 US-08-532-979-5

Query Match 65.7%; Score 13.8; DB 2; Length 18;  
 Best Local Similarity 76.5%; Pred. No. 4e+03;  
 Matches 13; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy 5 GCGUGCCUCCUCACUGG 21  
 ||| |||:|:| ||||  
 Db 1 GCGCGCCTCCTCGCUGG 17

RESULT 32  
 US-08-532-979-7  
 ; Sequence 7, Application US/08532979  
 ; Patent No. 5969117  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Agrawal, Sudhir  
 ; TITLE OF INVENTION: MODIFIED PROTEIN KINASE A-SPECIFIC

```

; TITLE OF INVENTION: OLIGONUCLEOTIDES AND METHODS OF THEIR USE
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lappin & Kusmer
; STREET: 200 State Street
; CITY: Boston
; STATE: MA
; COUNTRY: USA
; ZIP: 02109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/532,979
; FILING DATE:
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: Kerner, Ann-Louise
; REGISTRATION NUMBER: 33,523
; REFERENCE/DOCKET NUMBER: HYZ-050
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617-330-1300
; TELEFAX: 617-330-1311
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 18 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA/RNA
; HYPOTHETICAL: NO
; ANTI-SENSE: YES
US-08-532-979-7

```

```

Query Match          65.7%; Score 13.8; DB 2; Length 18;
Best Local Similarity 82.4%; Pred. No. 4e+03;
Matches 14; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

```

```

Qy      5 GCGUGCCUCCUCACUGG 21
        ||| ||||| ||| |:||
Db      1 GCGCGCCUCCUCGCTGG 17

```

```

RESULT 33
US-09-896-594-4/c
; Sequence 4, Application US/09896594
; Patent No. 6803225
; GENERAL INFORMATION:
; APPLICANT: Contreras, Roland
; APPLICANT: Callewaert, Nico L. M.
; APPLICANT: Geysens, Steven C. J.
; TITLE OF INVENTION: PROTEIN GLYCOSYLATION MODIFICATION IN PICHIA PASTORIS
; FILE REFERENCE: 13748
; CURRENT APPLICATION NUMBER: US/09/896,594
; CURRENT FILING DATE: 2001-06-29
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 23

```

; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence:primer  
US-09-896-594-4

Query Match 64.8%; Score 13.6; DB 3; Length 23;  
Best Local Similarity 60.0%; Pred. No. 4.9e+03;  
Matches 12; Conservative 4; Mismatches 4; Indels 0; Gaps 0;

QY 2 GCUGCGUGCCUCCUCACUGG 21  
|| || :|| :||:|| :||  
Db 20 GCGGCATGCGTCCTCAATGG 1

RESULT 34

US-09-896-594-8/c  
; Sequence 8, Application US/09896594  
; Patent No. 6803225  
; GENERAL INFORMATION:  
; APPLICANT: Contreras, Roland  
; APPLICANT: Callewaert, Nico L. M.  
; APPLICANT: Geysens, Steven C. J.  
; TITLE OF INVENTION: PROTEIN GLYCOSYLATION MODIFICATION IN PICHIA PASTORIS  
; FILE REFERENCE: 13748  
; CURRENT APPLICATION NUMBER: US/09/896,594  
; CURRENT FILING DATE: 2001-06-29  
; NUMBER OF SEQ ID NOS: 29  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 8  
; LENGTH: 23  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence:primer  
US-09-896-594-8

Query Match 64.8%; Score 13.6; DB 3; Length 23;  
Best Local Similarity 60.0%; Pred. No. 4.9e+03;  
Matches 12; Conservative 4; Mismatches 4; Indels 0; Gaps 0;

QY 2 GCUGCGUGCCUCCUCACUGG 21  
|| || :|| :||:|| :||  
Db 20 GCGGCATGCGTCCTCAATGG 1

RESULT 35

US-09-396-196G-40807/c  
; Sequence 40807, Application US/09396196G  
; Patent No. 6821724  
; GENERAL INFORMATION:  
; APPLICANT: Michael Mittmann  
; APPLICANT: David Mack  
; APPLICANT: David Lockhart  
; APPLICANT: Affymetrix, Inc.  
; TITLE OF INVENTION: Methods of Genetic Analysis  
; FILE REFERENCE: 3101.1  
; CURRENT APPLICATION NUMBER: US/09/396,196G  
; CURRENT FILING DATE: 1999-09-15  
; PRIOR APPLICATION NUMBER: 60/100,678  
; PRIOR FILING DATE: 1998-09-17

; NUMBER OF SEQ ID NOS: 127806  
; SOFTWARE: FastSEQ for Windows Version 4.0  
; SEQ ID NO 40807  
; LENGTH: 25  
; TYPE: DNA  
; ORGANISM: Mus musculus  
US-09-396-196G-40807

Query Match 63.8%; Score 13.4; DB 3; Length 25;  
Best Local Similarity 66.7%; Pred. No. 6.1e+03;  
Matches 10; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 5 GCGUGCCUCCUCACU 19  
|||:|:|: |:|:|:  
Db 25 GCGTGCCTGCTCACT 11

RESULT 36

US-09-396-196G-15028/c  
; Sequence 15028, Application US/09396196G  
; Patent No. 6821724  
; GENERAL INFORMATION:  
; APPLICANT: Michael Mittmann  
; APPLICANT: David Mack  
; APPLICANT: David Lockhart  
; APPLICANT: Affymetrix, Inc.  
; TITLE OF INVENTION: Methods of Genetic Analysis  
; FILE REFERENCE: 3101.1  
; CURRENT APPLICATION NUMBER: US/09/396,196G  
; CURRENT FILING DATE: 1999-09-15  
; PRIOR APPLICATION NUMBER: 60/100,678  
; PRIOR FILING DATE: 1998-09-17  
; NUMBER OF SEQ ID NOS: 127806  
; SOFTWARE: FastSEQ for Windows Version 4.0  
; SEQ ID NO 15028  
; LENGTH: 25  
; TYPE: DNA  
; ORGANISM: Mus musculus  
US-09-396-196G-15028

Query Match 62.9%; Score 13.2; DB 3; Length 25;  
Best Local Similarity 55.6%; Pred. No. 7.5e+03;  
Matches 10; Conservative 5; Mismatches 3; Indels 0; Gaps 0;

QY 4 UGCGUGCCUCCUCACUGG 21  
:| |:|:|:|:|:|:  
Db 22 TGTGTTCTCTCTCAGTGG 5

RESULT 37

US-09-302-357-51  
; Sequence 51, Application US/09302357  
; Patent No. 6570070  
; GENERAL INFORMATION:  
; APPLICANT: NAKAJIMA, Hiroki  
; APPLICANT: NAGASAWA, Akitsu  
; TITLE OF INVENTION: METHOD FOR GIVING RESISTANCE TO WEED CONTROL COMPOUNDS  
; TITLE OF INVENTION: TO PLANTS  
; FILE REFERENCE: 20-4555P  
; CURRENT APPLICATION NUMBER: US/09/302,357  
; CURRENT FILING DATE: 1999-04-30

; NUMBER OF SEQ ID NOS: 65  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 51  
; LENGTH: 30  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
; OTHER INFORMATION: Oligonucleotide to synthesize the gene encoding  
; OTHER INFORMATION: the peptide MG(RASSL)8  
US-09-302-357-51

Query Match 62.9%; Score 13.2; DB 3; Length 30;  
Best Local Similarity 55.6%; Pred. No. 7.5e+03;  
Matches 10; Conservative 5; Mismatches 3; Indels 0; Gaps 0;

Qy 3 CUGCGUGCCUCCUCACUG 20  
|:|:|:|:|:|:|:|:|:|  
Db 1 CTGCGTGCTTCTTCCCTG 18

RESULT 38

US-09-697-719-51

; Sequence 51, Application US/09697719  
; Patent No. 6906245  
; GENERAL INFORMATION:  
; APPLICANT: NAKAJIMA, Hiroki  
; APPLICANT: NAGASAWA, Akitsu  
; TITLE OF INVENTION: Method for giving resistance to weed control compounds to plant  
; FILE REFERENCE: 0020-4764P  
; CURRENT APPLICATION NUMBER: US/09/697,719  
; CURRENT FILING DATE: 2000-10-27  
; PRIOR APPLICATION NUMBER: JP 10/120553  
; PRIOR FILING DATE: 1998-04-30  
; PRIOR APPLICATION NUMBER: JP 10/281127  
; PRIOR FILING DATE: 1998-10-02  
; PRIOR APPLICATION NUMBER: JP 10/330981  
; PRIOR FILING DATE: 1998-11-20  
; PRIOR APPLICATION NUMBER: JP 11/054730  
; PRIOR FILING DATE: 1999-03-02  
; NUMBER OF SEQ ID NOS: 78  
; SEQ ID NO 51  
; LENGTH: 30  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Designed oligonucleotide to synthesize the gene encoding the pe  
US-09-697-719-51

Query Match 62.9%; Score 13.2; DB 3; Length 30;  
Best Local Similarity 55.6%; Pred. No. 7.5e+03;  
Matches 10; Conservative 5; Mismatches 3; Indels 0; Gaps 0;

Qy 3 CUGCGUGCCUCCUCACUG 20  
|:|:|:|:|:|:|:|:|:|  
Db 1 CTGCGTGCTTCTTCCCTG 18

RESULT 39

US-10-196-000-5/c

; Sequence 5, Application US/10196000

```

; Patent No. 6846674
; GENERAL INFORMATION:
; APPLICANT: Deutsches Krebsforschungszentrum
; APPLICANT: Angel, Peter
; APPLICANT: Fusenig, No. 6846674bert
; APPLICANT: Kolbus, Andrea
; APPLICANT: Schorpp-Kistner, Marina
; APPLICANT: Szabowski, Axel
; APPLICANT: Maas-Szabowski, Nicole
; APPLICANT: Andrecht, Sven
; TITLE OF INVENTION: GENETICALLY MODIFIED FIBROBLAST CELLS
; FILE REFERENCE: 1617.022US1
; CURRENT APPLICATION NUMBER: US/10/196,000
; CURRENT FILING DATE: 2002-07-15
; PRIOR APPLICATION NUMBER: PCT/DE01/00131
; PRIOR FILING DATE: 2001-01-12
; PRIOR APPLICATION NUMBER: DE 100 11 926.3
; PRIOR FILING DATE: 2000-01-14
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 5
;   LENGTH: 24
;   TYPE: DNA
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: A primer
US-10-196-000-5

```

```

Query Match          61.9%; Score 13; DB 3; Length 24;
Best Local Similarity 76.9%; Pred. No. 9.2e+03;
Matches 10; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

```

```

Qy      2 GCUGCGUGCCUCC 14
        ||:||||:||||:|
Db      24 GCTGCGTGCCTCC 12

```

```

RESULT 40
US-09-396-196G-36692/c
; Sequence 36692, Application US/09396196G
; Patent No. 6821724
; GENERAL INFORMATION:
; APPLICANT: Michael Mittmann
; APPLICANT: David Mack
; APPLICANT: David Lockhart
; APPLICANT: Affymetrix, Inc.
; TITLE OF INVENTION: Methods of Genetic Analysis
; FILE REFERENCE: 3101.1
; CURRENT APPLICATION NUMBER: US/09/396,196G
; CURRENT FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: 60/100,678
; PRIOR FILING DATE: 1998-09-17
; NUMBER OF SEQ ID NOS: 127806
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 36692
;   LENGTH: 25
;   TYPE: DNA
;   ORGANISM: Mus musculus
US-09-396-196G-36692

```

```

Query Match          61.9%; Score 13; DB 3; Length 25;

```

Best Local Similarity 57.1%; Pred. No. 9.2e+03;  
Matches 12; Conservative 4; Mismatches 5; Indels 0; Gaps 0;

Qy 1 GGCUGCGUGCCUCCUCACUGG 21  
|||:|| | |:||:|| : |  
Db 24 GGCTGCTGGTCTCCTCAGTAG 4

Search completed: November 20, 2006, 06:03:17  
Job time : 111 secs

---

SCORE 1.3 BuildDate: 12/06/2005

---

Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGCUGCGUGCCUCCUCACUGG 21  
 |||  
 Db 1 GGCUGCGUGCCUCCUCACUGG 21

RESULT 4

US-10-728-491-22  
 ; Sequence 22, Application US/10728491  
 ; Publication No. US20040142896A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Wang, Jui, H  
 ; TITLE OF INVENTION: High Efficacy Antisense RI alpha PKA Poly-DNP Oligoribonucleoti  
 ; FILE REFERENCE: 11520.0338  
 ; CURRENT APPLICATION NUMBER: US/10/728,491  
 ; CURRENT FILING DATE: 2003-12-05  
 ; PRIOR APPLICATION NUMBER: US 60/431,694  
 ; PRIOR FILING DATE: 2002-12-05  
 ; NUMBER OF SEQ ID NOS: 27  
 ; SEQ ID NO 22  
 ; LENGTH: 23  
 ; TYPE: RNA  
 ; ORGANISM: artificial sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: Antisense oligoribunucleotide 22-mer  
 US-10-728-491-22

Query Match 100.0%; Score 21; DB 8; Length 23;  
 Best Local Similarity 100.0%; Pred. No. 6.3;  
 Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGCUGCGUGCCUCCUCACUGG 21  
 |||  
 Db 1 GGCUGCGUGCCUCCUCACUGG 21

RESULT 5

US-10-291-058A-8/c  
 ; Sequence 8, Application US/10291058A  
 ; Publication No. US20030220486A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Zhou, Wen-Qiang  
 ; APPLICANT: Agrawal, Sudhir  
 ; TITLE OF INVENTION: Mixed Backbone Oligonucleotides Containing Pops Blocks  
 ; TITLE OF INVENTION: to Obtain Reduced Phosphorothioate Content  
 ; FILE REFERENCE: 47508-752  
 ; CURRENT APPLICATION NUMBER: US/10/291,058A  
 ; CURRENT FILING DATE: 2002-11-08  
 ; PRIOR APPLICATION NUMBER: US 09/283,431  
 ; PRIOR FILING DATE: 1999-04-01  
 ; NUMBER OF SEQ ID NOS: 8  
 ; SOFTWARE: FastSEQ for Windows Version 4.0  
 ; SEQ ID NO 8  
 ; LENGTH: 30  
 ; TYPE: RNA  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: RNA phosphodiester  
 US-10-291-058A-8

40/99 50409



Query Match 100.0%; Score 21; DB 7; Length 30;  
Best Local Similarity 76.2%; Pred. No. 6;  
Matches 16; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGCUGCGUGCCUCCUCACUGG 21  
|||:||||:||||:||||:|  
Db 28 GGCTGCGTGCCCTCCTCACTGG 8

RESULT 6

US-10-728-491-21  
; Sequence 21, Application US/10728491  
; Publication No. US20040142896A1  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Jui, H  
; TITLE OF INVENTION: High Efficacy Antisense RI alpha PKA Poly-DNP Oligoribonucleoti  
; FILE REFERENCE: 11520.0338  
; CURRENT APPLICATION NUMBER: US/10/728,491  
; CURRENT FILING DATE: 2003-12-05  
; PRIOR APPLICATION NUMBER: US 60/431,694  
; PRIOR FILING DATE: 2002-12-05  
; NUMBER OF SEQ ID NOS: 27  
; SEQ ID NO 21  
; LENGTH: 20  
; TYPE: RNA  
; ORGANISM: artificial sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense oligoribunucleotide 20-mer  
US-10-728-491-21

Query Match 95.2%; Score 20; DB 8; Length 20;  
Best Local Similarity 100.0%; Pred. No. 19;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGCUGCGUGCCUCCUCACUG 20  
||||||||||||||||||  
Db 1 GGCUGCGUGCCUCCUCACUG 20

RESULT 7

US-10-728-491-10  
; Sequence 10, Application US/10728491  
; Publication No. US20040142896A1  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Jui, H  
; TITLE OF INVENTION: High Efficacy Antisense RI alpha PKA Poly-DNP Oligoribonucleoti  
; FILE REFERENCE: 11520.0338  
; CURRENT APPLICATION NUMBER: US/10/728,491  
; CURRENT FILING DATE: 2003-12-05  
; PRIOR APPLICATION NUMBER: US 60/431,694  
; PRIOR FILING DATE: 2002-12-05  
; NUMBER OF SEQ ID NOS: 27  
; SEQ ID NO 10  
; LENGTH: 21  
; TYPE: RNA  
; ORGANISM: artificial sequence  
; FEATURE:  
; OTHER INFORMATION: One-base mismatch at position 21 with poly-DNP-RNA-21  
US-10-728-491-10

Query Match 95.2%; Score 20; DB 8; Length 21;

Best Local Similarity 100.0%; Pred. No. 19;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGCUGCGUGCCUCCUCACUG 20  
|||||||  
Db 1 GGCUGCGUGCCUCCUCACUG 20

RESULT 8

US-10-728-491-11

; Sequence 11, Application US/10728491  
; Publication No. US20040142896A1  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Jui, H  
; TITLE OF INVENTION: High Efficacy Antisense RI alpha PKA Poly-DNP Oligoribonucleoti  
; FILE REFERENCE: 11520.0338  
; CURRENT APPLICATION NUMBER: US/10/728,491  
; CURRENT FILING DATE: 2003-12-05  
; PRIOR APPLICATION NUMBER: US 60/431,694  
; PRIOR FILING DATE: 2002-12-05  
; NUMBER OF SEQ ID NOS: 27  
; SEQ ID NO 11  
; LENGTH: 21  
; TYPE: RNA  
; ORGANISM: artificial sequence  
; FEATURE:  
; OTHER INFORMATION: One-base mismatch at position 20 with poly-DNP-RNA-21  
US-10-728-491-11

Query Match 92.4%; Score 19.4; DB 8; Length 21;  
Best Local Similarity 95.2%; Pred. No. 36;  
Matches 20; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GGCUGCGUGCCUCCUCACUGG 21  
|||||||  
Db 1 GGCUGCGUGCCUCCUCACUG 21

RESULT 9

US-10-728-491-12

; Sequence 12, Application US/10728491  
; Publication No. US20040142896A1  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Jui, H  
; TITLE OF INVENTION: High Efficacy Antisense RI alpha PKA Poly-DNP Oligoribonucleoti  
; FILE REFERENCE: 11520.0338  
; CURRENT APPLICATION NUMBER: US/10/728,491  
; CURRENT FILING DATE: 2003-12-05  
; PRIOR APPLICATION NUMBER: US 60/431,694  
; PRIOR FILING DATE: 2002-12-05  
; NUMBER OF SEQ ID NOS: 27  
; SEQ ID NO 12  
; LENGTH: 21  
; TYPE: RNA  
; ORGANISM: artificial sequence  
; FEATURE:  
; OTHER INFORMATION: One-base mismatch at position 19 of poly-DNP-RNA-21  
US-10-728-491-12

Query Match 92.4%; Score 19.4; DB 8; Length 21;  
Best Local Similarity 95.2%; Pred. No. 36;

Matches 20; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GGCUGCGUGCCUCCUCACUGG 21  
|||||||  
Db 1 GGCUGCGUGCCUCCUCACAGG 21

RESULT 10

US-10-728-491-13

; Sequence 13, Application US/10728491  
; Publication No. US20040142896A1  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Jui, H  
; TITLE OF INVENTION: High Efficacy Antisense RI alpha PKA Poly-DNP Oligoribonucleoti  
; FILE REFERENCE: 11520.0338  
; CURRENT APPLICATION NUMBER: US/10/728,491  
; CURRENT FILING DATE: 2003-12-05  
; PRIOR APPLICATION NUMBER: US 60/431,694  
; PRIOR FILING DATE: 2002-12-05  
; NUMBER OF SEQ ID NOS: 27  
; SEQ ID NO 13  
; LENGTH: 21  
; TYPE: RNA  
; ORGANISM: artificial sequence  
; FEATURE:  
; OTHER INFORMATION: One-base mismatch at position 18 of poly-DNP-RNA-21  
US-10-728-491-13

Query Match 92.4%; Score 19.4; DB 8; Length 21;  
Best Local Similarity 95.2%; Pred. No. 36;  
Matches 20; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GGCUGCGUGCCUCCUCACUGG 21  
|||||||  
Db 1 GGCUGCGUGCCUCCUCAGUGG 21

RESULT 11

US-10-728-491-14

; Sequence 14, Application US/10728491  
; Publication No. US20040142896A1  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Jui, H  
; TITLE OF INVENTION: High Efficacy Antisense RI alpha PKA Poly-DNP Oligoribonucleoti  
; FILE REFERENCE: 11520.0338  
; CURRENT APPLICATION NUMBER: US/10/728,491  
; CURRENT FILING DATE: 2003-12-05  
; PRIOR APPLICATION NUMBER: US 60/431,694  
; PRIOR FILING DATE: 2002-12-05  
; NUMBER OF SEQ ID NOS: 27  
; SEQ ID NO 14  
; LENGTH: 21  
; TYPE: RNA  
; ORGANISM: artificial sequence  
; FEATURE:  
; OTHER INFORMATION: One-base mismatch at position 17 of poly-DNP-RNA-21  
US-10-728-491-14

Query Match 92.4%; Score 19.4; DB 8; Length 21;  
Best Local Similarity 95.2%; Pred. No. 36;  
Matches 20; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GGCUGCGUGCCUCCUCACUGG 21  
| | | | | | | | | | | | | | | |  
Db 1 GGCUGCGUGCCUCCUCUCUGG 21

RESULT 12

US-10-728-491-15

; Sequence 15, Application US/10728491  
; Publication No. US20040142896A1  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Jui, H  
; TITLE OF INVENTION: High Efficacy Antisense RI alpha PKA Poly-DNP Oligoribonucleoti  
; FILE REFERENCE: 11520.0338  
; CURRENT APPLICATION NUMBER: US/10/728,491  
; CURRENT FILING DATE: 2003-12-05  
; PRIOR APPLICATION NUMBER: US 60/431,694  
; PRIOR FILING DATE: 2002-12-05  
; NUMBER OF SEQ ID NOS: 27  
; SEQ ID NO 15  
; LENGTH: 21  
; TYPE: RNA  
; ORGANISM: artificial sequence  
; FEATURE:  
; OTHER INFORMATION: One-base mismatch at position 16 of poly-DNP-RNA-21  
US-10-728-491-15

Query Match 92.4%; Score 19.4; DB 8; Length 21;  
Best Local Similarity 95.2%; Pred. No. 36;  
Matches 20; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GGCUGCGUGCCUCCUCACUGG 21  
| | | | | | | | | | | | | | | |  
Db 1 GGCUGCGUGCCUCCUGACUGG 21

RESULT 13

US-10-728-491-16

; Sequence 16, Application US/10728491  
; Publication No. US20040142896A1  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Jui, H  
; TITLE OF INVENTION: High Efficacy Antisense RI alpha PKA Poly-DNP Oligoribonucleoti  
; FILE REFERENCE: 11520.0338  
; CURRENT APPLICATION NUMBER: US/10/728,491  
; CURRENT FILING DATE: 2003-12-05  
; PRIOR APPLICATION NUMBER: US 60/431,694  
; PRIOR FILING DATE: 2002-12-05  
; NUMBER OF SEQ ID NOS: 27  
; SEQ ID NO 16  
; LENGTH: 21  
; TYPE: RNA  
; ORGANISM: artificial sequence  
; FEATURE:  
; OTHER INFORMATION: One-base mismatch at position 15 of poly-DNP-RNA-21  
US-10-728-491-16

Query Match 92.4%; Score 19.4; DB 8; Length 21;  
Best Local Similarity 95.2%; Pred. No. 36;  
Matches 20; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GGCUGCGUGCCUCCUCACUGG 21  
|||||||  
Db 1 GGCUGCGUGCCUCCACACUGG 21

RESULT 14

US-10-728-491-17

; Sequence 17, Application US/10728491  
; Publication No. US20040142896A1  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Jui, H  
; TITLE OF INVENTION: High Efficacy Antisense RI alpha PKA Poly-DNP Oligoribonucleoti  
; FILE REFERENCE: 11520.0338  
; CURRENT APPLICATION NUMBER: US/10/728,491  
; CURRENT FILING DATE: 2003-12-05  
; PRIOR APPLICATION NUMBER: US 60/431,694  
; PRIOR FILING DATE: 2002-12-05  
; NUMBER OF SEQ ID NOS: 27  
; SEQ ID NO 17  
; LENGTH: 21  
; TYPE: RNA  
; ORGANISM: artificial sequence  
; FEATURE:  
; OTHER INFORMATION: One-base mismatch at position 14 of poly-DNP-RNA-21  
US-10-728-491-17

Query Match 92.4%; Score 19.4; DB 8; Length 21;  
Best Local Similarity 95.2%; Pred. No. 36;  
Matches 20; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GGCUGCGUGCCUCCUCACUGG 21  
|||||||  
Db 1 GGCUGCGUGCCUCAUCACUGG 21

RESULT 15

US-10-728-491-18

; Sequence 18, Application US/10728491  
; Publication No. US20040142896A1  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Jui, H  
; TITLE OF INVENTION: High Efficacy Antisense RI alpha PKA Poly-DNP Oligoribonucleoti  
; FILE REFERENCE: 11520.0338  
; CURRENT APPLICATION NUMBER: US/10/728,491  
; CURRENT FILING DATE: 2003-12-05  
; PRIOR APPLICATION NUMBER: US 60/431,694  
; PRIOR FILING DATE: 2002-12-05  
; NUMBER OF SEQ ID NOS: 27  
; SEQ ID NO 18  
; LENGTH: 21  
; TYPE: RNA  
; ORGANISM: artificial sequence  
; FEATURE:  
; OTHER INFORMATION: One-base mismatch at position 11 of poly-DNP-RNA-21  
US-10-728-491-18

Query Match 92.4%; Score 19.4; DB 8; Length 21;  
Best Local Similarity 95.2%; Pred. No. 36;  
Matches 20; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GGCUGCGUGCCUCCUCACUGG 21

Db 1 GGCUGCGUGCAUCCUCACUGG 21

RESULT 16

US-10-728-491-19

; Sequence 19, Application US/10728491  
; Publication No. US20040142896A1  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Jui, H  
; TITLE OF INVENTION: High Efficacy Antisense RI alpha PKA Poly-DNP Oligoribonucleoti  
; FILE REFERENCE: 11520.0338  
; CURRENT APPLICATION NUMBER: US/10/728,491  
; CURRENT FILING DATE: 2003-12-05  
; PRIOR APPLICATION NUMBER: US 60/431,694  
; PRIOR FILING DATE: 2002-12-05  
; NUMBER OF SEQ ID NOS: 27  
; SEQ ID NO 19  
; LENGTH: 21  
; TYPE: RNA  
; ORGANISM: artificial sequence  
; FEATURE:  
; OTHER INFORMATION: One-base mismatch at position 2 of poly-DNP-RNA-21  
US-10-728-491-19

Query Match 92.4%; Score 19.4; DB 8; Length 21;  
Best Local Similarity 95.2%; Pred. No. 36;  
Matches 20; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GGCUGCGUGCCUCCUCACUGG 21  
| | | | | | | | | | | | | | | | | | | | | |  
Db 1 GCCUGCGUGCCUCCUCACUGG 21

RESULT 17

US-10-728-491-8/c

; Sequence 8, Application US/10728491  
; Publication No. US20040142896A1  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Jui, H  
; TITLE OF INVENTION: High Efficacy Antisense RI alpha PKA Poly-DNP Oligoribonucleoti  
; FILE REFERENCE: 11520.0338  
; CURRENT APPLICATION NUMBER: US/10/728,491  
; CURRENT FILING DATE: 2003-12-05  
; PRIOR APPLICATION NUMBER: US 60/431,694  
; PRIOR FILING DATE: 2002-12-05  
; NUMBER OF SEQ ID NOS: 27  
; SEQ ID NO 8  
; LENGTH: 21  
; TYPE: DNA  
; ORGANISM: artificial sequence  
; FEATURE:  
; OTHER INFORMATION: Sense strand  
US-10-728-491-8

Query Match 90.5%; Score 19; DB 8; Length 21;  
Best Local Similarity 73.7%; Pred. No. 56;  
Matches 14; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

Qy 3 CUGCGUGCCUCCUCACUGG 21  
| : | | | : | | | : | | : | | : | |

Db 21 CTGCGTGCCTCCTCACTGG 3

RESULT 18

US-10-728-491-20

; Sequence 20, Application US/10728491  
; Publication No. US20040142896A1  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Jui, H  
; TITLE OF INVENTION: High Efficacy Antisense RI alpha PKA Poly-DNP Oligoribonucleoti  
; FILE REFERENCE: 11520.0338  
; CURRENT APPLICATION NUMBER: US/10/728,491  
; CURRENT FILING DATE: 2003-12-05  
; PRIOR APPLICATION NUMBER: US 60/431,694  
; PRIOR FILING DATE: 2002-12-05  
; NUMBER OF SEQ ID NOS: 27  
; SEQ ID NO 20  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: artificial sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense oligoribonucleotide 18-mer  
US-10-728-491-20

Query Match 85.7%; Score 18; DB 8; Length 18;  
Best Local Similarity 100.0%; Pred. No. 1.7e+02;  
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGCUGCGUGCCUCCUCAC 18  
| | | | | | | | | | | | | | | |  
Db 1 GGCUGCGUGCCUCCUCAC 18

RESULT 19

US-09-835-371-39

; Sequence 39, Application US/09835371  
; Publication No. US20020187473A1  
; GENERAL INFORMATION:  
; APPLICANT: UHLMANN, Eugen  
; APPLICANT: BREIPOHL, Gerhard  
; APPLICANT: WILL, David W  
; TITLE OF INVENTION: POLYAMIDE NUCLEIC ACID DERIVATIVES, AND AGENTS AND  
; TITLE OF INVENTION: PROCESSES FOR PREPARING THEM  
; FILE REFERENCE: 02481.1743 SEQUENCE LISTING  
; CURRENT APPLICATION NUMBER: US/09/835,371  
; CURRENT FILING DATE: 2001-04-17  
; NUMBER OF SEQ ID NOS: 53  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 39  
; LENGTH: 18  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: base sequence  
; OTHER INFORMATION: of PNA targeting CMV  
US-09-835-371-39

Query Match 81.0%; Score 17; DB 3; Length 18;  
Best Local Similarity 76.5%; Pred. No. 5e+02;  
Matches 13; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 5 GCGUGCCUCCUCACUGG 21  
|||:||||:||||:|  
Db 1 GCGTGCCTCCTCACTGG 17

RESULT 20

US-09-835-370-39

; Sequence 39, Application US/09835370  
; Publication No. US20030022172A1  
; GENERAL INFORMATION:  
; APPLICANT: UHLMANN, EUGEN  
; APPLICANT: BREIPOHL, GERHARD  
; APPLICANT: WILL, DAVID W  
; TITLE OF INVENTION: POLYAMIDE NUCLEIC ACID DERIVATIVES AND AGENTS AND  
; TITLE OF INVENTION: PROCESSES FOR PREPARING THEM  
; FILE REFERENCE: 02481.1742 SEQUENCE LISTING  
; CURRENT APPLICATION NUMBER: US/09/835,370  
; CURRENT FILING DATE: 2001-04-17  
; NUMBER OF SEQ ID NOS: 64  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 39  
; LENGTH: 18  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: nucleotide  
; OTHER INFORMATION: base sequence of PNA derivatives that bind to  
; OTHER INFORMATION: viral and cellular targets  
US-09-835-370-39

Query Match 81.0%; Score 17; DB 3; Length 18;  
Best Local Similarity 76.5%; Pred. No. 5e+02;  
Matches 13; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 5 GCGUGCCUCCUCACUGG 21  
|||:||||:||||:|  
Db 1 GCGTGCCTCCTCACTGG 17

RESULT 21

US-09-412-947-1

; Sequence 1, Application US/09412947  
; Publication No. US20030105035A1  
; GENERAL INFORMATION:  
; APPLICANT: AGRAWAL, Sudhir  
; TITLE OF INVENTION: MODIFIED PROTEIN KINASE A-SPECIFIC OLIGONUCLEOTIDES AND  
; TITLE OF INVENTION: METHODS OF THEIR USE  
; FILE REFERENCE: HYZ-050CP2  
; CURRENT APPLICATION NUMBER: US/09/412,947  
; CURRENT FILING DATE: 1999-10-05  
; PRIOR APPLICATION NUMBER: US 60/103,098  
; PRIOR FILING DATE: 1998-10-05  
; NUMBER OF SEQ ID NOS: 8  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 1  
; LENGTH: 18  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: control  
; OTHER INFORMATION: synthetic oligonucleotide



US-09-412-947-1

Query Match 81.0%; Score 17; DB 3; Length 18;  
Best Local Similarity 76.5%; Pred. No. 5e+02;  
Matches 13; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 5 GCGUGCCUCCUCACUGG 21  
|||:||||:||:||||:  
Db 1 GCGTGCCTCCTCACTGG 17

RESULT 22

US-09-412-947-4

; Sequence 4, Application US/09412947  
; Publication No. US20030105035A1  
; GENERAL INFORMATION:  
; APPLICANT: AGRAWAL, Sudhir  
; TITLE OF INVENTION: MODIFIED PROTEIN KINASE A-SPECIFIC OLIGONUCLEOTIDES AND  
; TITLE OF INVENTION: METHODS OF THEIR USE  
; FILE REFERENCE: HYZ-050CP2  
; CURRENT APPLICATION NUMBER: US/09/412,947  
; CURRENT FILING DATE: 1999-10-05  
; PRIOR APPLICATION NUMBER: US 60/103,098  
; PRIOR FILING DATE: 1998-10-05  
; NUMBER OF SEQ ID NOS: 8  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 4  
; LENGTH: 18  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Combined DNA/RNA Molecule:single  
; OTHER INFORMATION: stranded nucleic acid  
; OTHER INFORMATION: Description of Artificial Sequence:hybrid  
; OTHER INFORMATION: synthetic oligonucleotide

US-09-412-947-4

Query Match 81.0%; Score 17; DB 3; Length 18;  
Best Local Similarity 88.2%; Pred. No. 5e+02;  
Matches 15; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 5 GCGUGCCUCCUCACUGG 21  
|||||||:||:|||||  
Db 1 GCGUGCCTCCTCACUGG 17

RESULT 23

US-09-412-947-6

; Sequence 6, Application US/09412947  
; Publication No. US20030105035A1  
; GENERAL INFORMATION:  
; APPLICANT: AGRAWAL, Sudhir  
; TITLE OF INVENTION: MODIFIED PROTEIN KINASE A-SPECIFIC OLIGONUCLEOTIDES AND  
; TITLE OF INVENTION: METHODS OF THEIR USE  
; FILE REFERENCE: HYZ-050CP2  
; CURRENT APPLICATION NUMBER: US/09/412,947  
; CURRENT FILING DATE: 1999-10-05  
; PRIOR APPLICATION NUMBER: US 60/103,098  
; PRIOR FILING DATE: 1998-10-05  
; NUMBER OF SEQ ID NOS: 8  
; SOFTWARE: PatentIn Ver. 2.0

```
; SEQ ID NO 6
; LENGTH: 18
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Combined DNA/RNA Molecule:single
; OTHER INFORMATION: stranded nucleic acid
; OTHER INFORMATION: Description of Artificial Sequence:inverted hybrid
; OTHER INFORMATION: synthetic oligonucleotide
US-09-412-947-6
```

```
Query Match          81.0%; Score 17; DB 3; Length 18;
Best Local Similarity 88.2%; Pred. No. 5e+02;
Matches 15; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      5 GCGUGCCUCCUCACUGG 21
        |||:|||||||:|
Db      1 GCGTGCCUCCUACTGG 17
```

#### RESULT 24

```
US-10-262-318-12
; Sequence 12, Application US/10262318
; Publication No. US20030144198A1
; GENERAL INFORMATION:
; APPLICANT: Copharos
; APPLICANT: Collins, Douglas A.
; TITLE OF INVENTION: CODMINISTRATION OF TRANSPORT PROTEINS WITH CONJUGATED COBALAMIN
; TITLE OF INVENTION: DELIVER AGENTS
; FILE REFERENCE: COP1012
; CURRENT APPLICATION NUMBER: US/10/262,318
; CURRENT FILING DATE: 2002-09-30
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 12
; LENGTH: 18
; TYPE: DNA
; ORGANISM: ARTIFICIAL SEQUENCE
; FEATURE:
; OTHER INFORMATION: Oligonucleotide-- GEN-231 (hybridon)
; FEATURE:
; NAME/KEY: modified_base
; LOCATION: (1)..(4)
; OTHER INFORMATION: 2'OMe sugar modifications
; FEATURE:
; NAME/KEY: modified_base
; LOCATION: (15)..(18)
; OTHER INFORMATION: 2'OMe sugar modifications
US-10-262-318-12
```

```
Query Match          81.0%; Score 17; DB 7; Length 18;
Best Local Similarity 88.2%; Pred. No. 5e+02;
Matches 15; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      5 GCGUGCCUCCUCACUGG 21
        |||||:|:||||
Db      1 GCGUGCCTCCTCACUGG 17
```

#### RESULT 25

```
US-10-291-058A-2
```

```

; Sequence 2, Application US/10291058A
; Publication No. US20030220486A1
; GENERAL INFORMATION:
; APPLICANT: Zhou, Wen-Qiang
; APPLICANT: Agrawal, Sudhir
; TITLE OF INVENTION: Mixed Backbone Oligonucleotides Containing Pops Blocks
; TITLE OF INVENTION: to Obtain Reduced Phosphorothioate Content
; FILE REFERENCE: 47508-752
; CURRENT APPLICATION NUMBER: US/10/291,058A
; CURRENT FILING DATE: 2002-11-08
; PRIOR APPLICATION NUMBER: US 09/283,431
; PRIOR FILING DATE: 1999-04-01
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 18
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Oligo No. US20030220486A1 1
; FEATURE:
; NAME/KEY: misc_binding
; LOCATION: (1)...(18)
; OTHER INFORMATION: nucleotides 1-18 are each connected by
; OTHER INFORMATION: phosphorothioate linkage
US-10-291-058A-2

```

```

Query Match          81.0%; Score 17; DB 7; Length 18;
Best Local Similarity 76.5%; Pred. No. 5e+02;
Matches 13; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

```

```

Qy      5 GCGUGCCUCCUCACUGG 21
        |||:||||:||:||||:|
Db      1 GCGTGCCTCCTCACTGG 17

```

#### RESULT 26

```

US-10-291-058A-3
; Sequence 3, Application US/10291058A
; Publication No. US20030220486A1
; GENERAL INFORMATION:
; APPLICANT: Zhou, Wen-Qiang
; APPLICANT: Agrawal, Sudhir
; TITLE OF INVENTION: Mixed Backbone Oligonucleotides Containing Pops Blocks
; TITLE OF INVENTION: to Obtain Reduced Phosphorothioate Content
; FILE REFERENCE: 47508-752
; CURRENT APPLICATION NUMBER: US/10/291,058A
; CURRENT FILING DATE: 2002-11-08
; PRIOR APPLICATION NUMBER: US 09/283,431
; PRIOR FILING DATE: 1999-04-01
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 18
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Oligo No. US20030220486A1 2
; FEATURE:
; NAME/KEY: misc_binding
; LOCATION: (1)...(18)

```

; OTHER INFORMATION: nucleotides 1-18 are each connected by  
; OTHER INFORMATION: phosphorothioate linkage  
US-10-291-058A-3

Query Match 81.0%; Score 17; DB 7; Length 18;  
Best Local Similarity 88.2%; Pred. No. 5e+02;  
Matches 15; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 5 GCGUGCCUCCUCACUGG 21  
|||||||:|:|||||  
Db 1 GCGUGCCTCCTCACUGG 17

RESULT 27

US-10-291-058A-4

; Sequence 4, Application US/10291058A  
; Publication No. US20030220486A1  
; GENERAL INFORMATION:  
; APPLICANT: Zhou, Wen-Qiang  
; APPLICANT: Agrawal, Sudhir  
; TITLE OF INVENTION: Mixed Backbone Oligonucleotides Containing Pops Blocks  
; TITLE OF INVENTION: to Obtain Reduced Phosphorothioate Content  
; FILE REFERENCE: 47508-752  
; CURRENT APPLICATION NUMBER: US/10/291,058A  
; CURRENT FILING DATE: 2002-11-08  
; PRIOR APPLICATION NUMBER: US 09/283,431  
; PRIOR FILING DATE: 1999-04-01  
; NUMBER OF SEQ ID NOS: 8  
; SOFTWARE: FastSEQ for Windows Version 4.0  
; SEQ ID NO 4  
; LENGTH: 18  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Oligo No. US20030220486A1 3  
; FEATURE:  
; NAME/KEY: misc\_binding  
; LOCATION: (1)...(18)  
; OTHER INFORMATION: nucleotides 1-18 are each connected by  
; OTHER INFORMATION: phosphorothioate linkage  
US-10-291-058A-4

Query Match 81.0%; Score 17; DB 7; Length 18;  
Best Local Similarity 100.0%; Pred. No. 5e+02;  
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 5 GCGUGCCUCCUCACUGG 21  
|||||||  
Db 1 GCGUGCCUCCUCACUGG 17

RESULT 28

US-10-291-058A-5

; Sequence 5, Application US/10291058A  
; Publication No. US20030220486A1  
; GENERAL INFORMATION:  
; APPLICANT: Zhou, Wen-Qiang  
; APPLICANT: Agrawal, Sudhir  
; TITLE OF INVENTION: Mixed Backbone Oligonucleotides Containing Pops Blocks  
; TITLE OF INVENTION: to Obtain Reduced Phosphorothioate Content  
; FILE REFERENCE: 47508-752

```

; CURRENT APPLICATION NUMBER: US/10/291,058A
; CURRENT FILING DATE: 2002-11-08
; PRIOR APPLICATION NUMBER: US 09/283,431
; PRIOR FILING DATE: 1999-04-01
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 18
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Oligo No. US20030220486A1 4
; FEATURE:
; NAME/KEY: misc_binding
; LOCATION: (1)...(18)
; OTHER INFORMATION: nucleotides 1-18 are each connected by
; OTHER INFORMATION: phosphodiester linkage
US-10-291-058A-5

```

```

Query Match          81.0%; Score 17; DB 7; Length 18;
Best Local Similarity 100.0%; Pred. No. 5e+02;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

Qy      5 GCGUGCCUCCUCACUGG 21
        |||
Db      1 GCGUGCCUCCUCACUGG 17

```

#### RESULT 29

US-10-291-058A-6

```

; Sequence 6, Application US/10291058A
; Publication No. US20030220486A1
; GENERAL INFORMATION:
; APPLICANT: Zhou, Wen-Qiang
; APPLICANT: Agrawal, Sudhir
; TITLE OF INVENTION: Mixed Backbone Oligonucleotides Containing Pops Blocks
; TITLE OF INVENTION: to Obtain Reduced Phosphorothioate Content
; FILE REFERENCE: 47508-752
; CURRENT APPLICATION NUMBER: US/10/291,058A
; CURRENT FILING DATE: 2002-11-08
; PRIOR APPLICATION NUMBER: US 09/283,431
; PRIOR FILING DATE: 1999-04-01
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 6
; LENGTH: 18
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Oligo No. US20030220486A1 5
; FEATURE:
; NAME/KEY: misc_binding
; LOCATION: (1)...(18)
; OTHER INFORMATION: Nucleotides 1&2, 3&4, 5&6, 7&8, 9&10, 11&12,
; OTHER INFORMATION: 13&14, 15&16, and 17&18 are connected by
; OTHER INFORMATION: phosphorothioate linkage
; FEATURE:
; NAME/KEY: misc_binding
; LOCATION: (1)...(18)
; OTHER INFORMATION: nucleotides 4&5, 6&7, 8&9, 10&11, 12&13, 14&15 and
; OTHER INFORMATION: 16&17 are connected by phosphodiester linkage

```

US-10-291-058A-6

Query Match 81.0%; Score 17; DB 7; Length 18;  
Best Local Similarity 100.0%; Pred. No. 5e+02;  
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 5 GCGUGCCUCCUCACUGG 21  
|||||||  
Db 1 GCGUGCCUCCUCACUGG 17

RESULT 30

US-10-291-058A-7

; Sequence 7, Application US/10291058A  
; Publication No. US20030220486A1  
; GENERAL INFORMATION:  
; APPLICANT: Zhou, Wen-Qiang  
; APPLICANT: Agrawal, Sudhir  
; TITLE OF INVENTION: Mixed Backbone Oligonucleotides Containing Pops Blocks  
; TITLE OF INVENTION: to Obtain Reduced Phosphorothioate Content  
; FILE REFERENCE: 47508-752  
; CURRENT APPLICATION NUMBER: US/10/291,058A  
; CURRENT FILING DATE: 2002-11-08  
; PRIOR APPLICATION NUMBER: US 09/283,431  
; PRIOR FILING DATE: 1999-04-01  
; NUMBER OF SEQ ID NOS: 8  
; SOFTWARE: FastSEQ for Windows Version 4.0  
; SEQ ID NO 7  
; LENGTH: 18  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Oligo No. US20030220486A1 6  
; FEATURE:  
; NAME/KEY: misc\_binding  
; LOCATION: (1)...(18)  
; OTHER INFORMATION: nucleotides 1&2, 3&4, 5-14, 15&16, and 17&18 are  
; OTHER INFORMATION: connected by phosphorothioate linkage  
; FEATURE:  
; NAME/KEY: misc\_binding  
; LOCATION: (1)...(18)  
; OTHER INFORMATION: nucleotides 2&3, 4&5, 14&15 and 16&17 are  
; OTHER INFORMATION: connected by phosphodiester linkage  
US-10-291-058A-7

Query Match 81.0%; Score 17; DB 7; Length 18;  
Best Local Similarity 88.2%; Pred. No. 5e+02;  
Matches 15; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 5 GCGUGCCUCCUCACUGG 21  
|||||||:|:|  
Db 1 GCGUGCCTCCTCACUGG 17

RESULT 31

US-10-640-898-20

; Sequence 20, Application US/10640898  
; Publication No. US20040033980A1  
; GENERAL INFORMATION:  
; APPLICANT: AGRAWAL, Sudhir  
; APPLICANT: DIASIO, Robert B.

```

; APPLICANT: ZHANG, Ruiwen
; TITLE OF INVENTION: A Method of Down-Regulating Gene Expression
; FILE REFERENCE: HYZ-030CPCN2(47508-734)
; CURRENT APPLICATION NUMBER: US/10/640,898
; CURRENT FILING DATE: 2003-08-21
; PRIOR APPLICATION NUMBER: US 08/758,005
; PRIOR FILING DATE: 1996-11-27
; PRIOR APPLICATION NUMBER: US 08/709,910
; PRIOR FILING DATE: 1996-09-09
; PRIOR APPLICATION NUMBER: US 08/328,520
; PRIOR FILING DATE: 1994-10-25
; NUMBER OF SEQ ID NOS: 21
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 20
; LENGTH: 18
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense
; OTHER INFORMATION: DNA/RNA
US-10-640-898-20

```

```

Query Match          81.0%; Score 17; DB 8; Length 18;
Best Local Similarity 88.2%; Pred. No. 5e+02;
Matches 15; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

```

```

Qy      5 GCGUGCCUCCUCACUGG 21
        |||||:|:|||||
Db      1 GCGUGCCTCCTCACUGG 17

```

# RESULT 32

```

US-10-641-521-1
; Sequence 1, Application US/10641521
; Publication No. US20040106570A1
; GENERAL INFORMATION:
; APPLICANT: AGRAWAL, SUDHIR
; TITLE OF INVENTION: MODIFIED PROTEIN KINASE A-SPECIFIC OLIGONUCLEOTIDES AND
; TITLE OF INVENTION: METHODS OF THEIR USE
; FILE REFERENCE: HYZ-050CIPDV-47508.766
; CURRENT APPLICATION NUMBER: US/10/641,521
; CURRENT FILING DATE: 2003-08-15
; PRIOR APPLICATION NUMBER: 09/022,965
; PRIOR FILING DATE: 1998-02-12
; PRIOR APPLICATION NUMBER: 60/040,740
; PRIOR FILING DATE: 1997-03-12
; PRIOR APPLICATION NUMBER: 08/532,979
; PRIOR FILING DATE: 1995-09-22
; PRIOR APPLICATION NUMBER: 08/516,454
; PRIOR FILING DATE: 1995-08-17
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 1
; LENGTH: 18
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: oligonucleotide
US-10-641-521-1

```

Query Match 81.0%; Score 17; DB 8; Length 18;  
Best Local Similarity 76.5%; Pred. No. 5e+02;  
Matches 13; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 5 GCGUGCCUCCUCACUGG 21  
|||:||||:|:|:|:|  
Db 1 GCGTGCCTCCTCACTGG 17

RESULT 33

US-10-641-521-4

; Sequence 4, Application US/10641521  
; Publication No. US20040106570A1  
; GENERAL INFORMATION:  
; APPLICANT: AGRAWAL, SUDHIR  
; TITLE OF INVENTION: MODIFIED PROTEIN KINASE A-SPECIFIC OLIGONUCLEOTIDES AND  
; TITLE OF INVENTION: METHODS OF THEIR USE  
; FILE REFERENCE: HYZ-050CIPDV-47508.766  
; CURRENT APPLICATION NUMBER: US/10/641,521  
; CURRENT FILING DATE: 2003-08-15  
; PRIOR APPLICATION NUMBER: 09/022,965  
; PRIOR FILING DATE: 1998-02-12  
; PRIOR APPLICATION NUMBER: 60/040,740  
; PRIOR FILING DATE: 1997-03-12  
; PRIOR APPLICATION NUMBER: 08/532,979  
; PRIOR FILING DATE: 1995-09-22  
; PRIOR APPLICATION NUMBER: 08/516,454  
; PRIOR FILING DATE: 1995-08-17  
; NUMBER OF SEQ ID NOS: 8  
; SOFTWARE: PatentIn Ver. 3.2  
; SEQ ID NO 4  
; LENGTH: 18  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Combined DNA/RNA Molecule:  
; OTHER INFORMATION: Synthetic oligonucleotide  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
; OTHER INFORMATION: oligonucleotide  
US-10-641-521-4

Query Match 81.0%; Score 17; DB 8; Length 18;  
Best Local Similarity 88.2%; Pred. No. 5e+02;  
Matches 15; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 5 GCGUGCCUCCUCACUGG 21  
|||||||:|:|:|:|  
Db 1 GCGUGCCTCCTCACUGG 17

RESULT 34

US-10-641-521-6

; Sequence 6, Application US/10641521  
; Publication No. US20040106570A1  
; GENERAL INFORMATION:  
; APPLICANT: AGRAWAL, SUDHIR  
; TITLE OF INVENTION: MODIFIED PROTEIN KINASE A-SPECIFIC OLIGONUCLEOTIDES AND  
; TITLE OF INVENTION: METHODS OF THEIR USE  
; FILE REFERENCE: HYZ-050CIPDV-47508.766  
; CURRENT APPLICATION NUMBER: US/10/641,521



```

; CURRENT FILING DATE: 2003-08-15
; PRIOR APPLICATION NUMBER: 09/022,965
; PRIOR FILING DATE: 1998-02-12
; PRIOR APPLICATION NUMBER: 60/040,740
; PRIOR FILING DATE: 1997-03-12
; PRIOR APPLICATION NUMBER: 08/532,979
; PRIOR FILING DATE: 1995-09-22
; PRIOR APPLICATION NUMBER: 08/516,454
; PRIOR FILING DATE: 1995-08-17
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 6
; LENGTH: 18
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Combined DNA/RNA Molecule:
; OTHER INFORMATION: Synthetic oligonucleotide
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: oligonucleotide
US-10-641-521-6

```

```

Query Match          81.0%; Score 17; DB 8; Length 18;
Best Local Similarity 88.2%; Pred. No. 5e+02;
Matches 15; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

```

```

Qy      5 GCGUGCCUCCUCACUGG 21
        |||:|||||||:|
Db      1 GCGTGCCUCCUCCACTGG 17

```

#### RESULT 35

```

US-10-728-491-2
; Sequence 2, Application US/10728491
; Publication No. US20040142896A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Jui, H
; TITLE OF INVENTION: High Efficacy Antisense RI alpha PKA Poly-DNP Oligoribonucleoti
; FILE REFERENCE: 11520.0338
; CURRENT APPLICATION NUMBER: US/10/728,491
; CURRENT FILING DATE: 2003-12-05
; PRIOR APPLICATION NUMBER: US 60/431,694
; PRIOR FILING DATE: 2002-12-05
; NUMBER OF SEQ ID NOS: 27
; SEQ ID NO 2
; LENGTH: 18
; TYPE: DNA
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: Mixed backbone (DNA/RNA)oligonucleotide - GEM231
US-10-728-491-2

```

```

Query Match          81.0%; Score 17; DB 8; Length 18;
Best Local Similarity 88.2%; Pred. No. 5e+02;
Matches 15; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

```

```

Qy      5 GCGUGCCUCCUCACUGG 21
        |||||:|:|
Db      1 GCGUGCCTCCTCACUGG 17

```

RESULT 36

US-10-728-491-5

; Sequence 5, Application US/10728491  
 ; Publication No. US20040142896A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Wang, Jui, H  
 ; TITLE OF INVENTION: High Efficacy Antisense RI alpha PKA Poly-DNP Oligoribonucleoti  
 ; FILE REFERENCE: 11520.0338  
 ; CURRENT APPLICATION NUMBER: US/10/728,491  
 ; CURRENT FILING DATE: 2003-12-05  
 ; PRIOR APPLICATION NUMBER: US 60/431,694  
 ; PRIOR FILING DATE: 2002-12-05  
 ; NUMBER OF SEQ ID NOS: 27  
 ; SEQ ID NO 5  
 ; LENGTH: 18  
 ; TYPE: DNA  
 ; ORGANISM: artificial sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: Mixed backbone (DNA/RNA) Oligonucleotide of Srivasta et al., 19  
 US-10-728-491-5

Query Match 81.0%; Score 17; DB 8; Length 18;  
 Best Local Similarity 88.2%; Pred. No. 5e+02;  
 Matches 15; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 5 GCGUGCCUCCUCACUGG 21  
 |||:|||||||:|  
 Db 1 GCGTGCCUCCUCCACTGG 17

RESULT 37

US-10-863-999-39

; Sequence 39, Application US/10863999  
 ; Publication No. US20040265885A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: UHLMANN, EUGEN  
 ; APPLICANT: BREIPOHL, GERHARD  
 ; APPLICANT: WILL, DAVID W  
 ; TITLE OF INVENTION: POLYAMIDE NUCLEIC ACID DERIVATIVES AND AGENTS AND  
 ; TITLE OF INVENTION: PROCESSES FOR PREPARING THEM  
 ; FILE REFERENCE: 02481.1742 SEQUENCE LISTING  
 ; CURRENT APPLICATION NUMBER: US/10/863,999  
 ; CURRENT FILING DATE: 2004-06-09  
 ; PRIOR APPLICATION NUMBER: US/09/835,370  
 ; PRIOR FILING DATE: 2001-04-17  
 ; NUMBER OF SEQ ID NOS: 64  
 ; SOFTWARE: PatentIn Ver. 2.1  
 ; SEQ ID NO 39  
 ; LENGTH: 18  
 ; TYPE: DNA  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: Description of Artificial Sequence: nucleotide  
 ; OTHER INFORMATION: base sequence of PNA derivatives that bind to  
 ; OTHER INFORMATION: viral and cellular targets  
 US-10-863-999-39

Query Match 81.0%; Score 17; DB 9; Length 18;  
 Best Local Similarity 76.5%; Pred. No. 5e+02;  
 Matches 13; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 5 GCGUGCCUCCUCACUGG 21  
|||:||||:|:|:|:|  
Db 1 GCGTGCCTCCTCACTGG 17

RESULT 38

US-10-858-658-39

; Sequence 39, Application US/10858658  
; Publication No. US20050009073A1  
; GENERAL INFORMATION:  
; APPLICANT: UHLMANN, Eugen  
; APPLICANT: BREIPOHL, Gerhard  
; APPLICANT: WILL, David W  
; TITLE OF INVENTION: POLYAMIDE NUCLEIC ACID DERIVATIVES, AND AGENTS AND  
; TITLE OF INVENTION: PROCESSES FOR PREPARING THEM  
; FILE REFERENCE: 02481.1743 SEQUENCE LISTING  
; CURRENT APPLICATION NUMBER: US/10/858,658  
; CURRENT FILING DATE: 2004-06-02  
; PRIOR APPLICATION NUMBER: US/09/835,371  
; PRIOR FILING DATE: 2001-04-17  
; NUMBER OF SEQ ID NOS: 53  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 39  
; LENGTH: 18  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: base sequence  
; OTHER INFORMATION: of PNA targeting CMV  
US-10-858-658-39

Query Match 81.0%; Score 17; DB 9; Length 18;  
Best Local Similarity 76.5%; Pred. No. 5e+02;  
Matches 13; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 5 GCGUGCCUCCUCACUGG 21  
|||:||||:|:|:|:|  
Db 1 GCGTGCCTCCTCACTGG 17

RESULT 39

US-10-854-989-1

; Sequence 1, Application US/10854989  
; Publication No. US20050054600A1  
; GENERAL INFORMATION:  
; APPLICANT: AGRAWAL, SUDHIR  
; TITLE OF INVENTION: MODIFIED PROTEIN KINASE A-SPECIFIC OLIGONUCLEOTIDES AND  
; TITLE OF INVENTION: METHODS OF THEIR USE  
; FILE REFERENCE: HYZ-050CP3 (47508.766)  
; CURRENT APPLICATION NUMBER: US/10/854,989  
; CURRENT FILING DATE: 2004-05-27  
; PRIOR APPLICATION NUMBER: 09/708,786  
; PRIOR FILING DATE: 2000-11-08  
; PRIOR APPLICATION NUMBER: 09/412,947  
; PRIOR FILING DATE: 1999-10-05  
; PRIOR APPLICATION NUMBER: 60/164,182  
; PRIOR FILING DATE: 1999-11-09  
; PRIOR APPLICATION NUMBER: 60/103,098  
; PRIOR FILING DATE: 1998-10-05  
; PRIOR APPLICATION NUMBER: 09/022,965

```

; PRIOR FILING DATE: 1998-02-12
; PRIOR APPLICATION NUMBER: 08/532,979
; PRIOR FILING DATE: 1995-09-22
; PRIOR APPLICATION NUMBER: 08/516,454
; PRIOR FILING DATE: 1995-08-17
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 1
;   LENGTH: 18
;   TYPE: DNA
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: Synthetic
;   OTHER INFORMATION: oligonucleotide
US-10-854-989-1

```

```

Query Match          81.0%; Score 17; DB 10; Length 18;
Best Local Similarity 76.5%; Pred. No. 5e+02;
Matches   13; Conservative   4; Mismatches   0; Indels   0; Gaps   0;

```

```

QY      5 GCGUGCCUCCUCACUGG 21
        |||:||||:||:||||:|
Db      1 GCGTGCCTCCTCACTGG 17

```

#### RESULT 40

```

US-10-854-989-4
; Sequence 4, Application US/10854989
; Publication No. US20050054600A1
; GENERAL INFORMATION:
; APPLICANT: AGRAWAL, SUDHIR
; TITLE OF INVENTION: MODIFIED PROTEIN KINASE A-SPECIFIC OLIGONUCLEOTIDES AND
; TITLE OF INVENTION: METHODS OF THEIR USE
; FILE REFERENCE: HYZ-050CP3 (47508.766)
; CURRENT APPLICATION NUMBER: US/10/854,989
; CURRENT FILING DATE: 2004-05-27
; PRIOR APPLICATION NUMBER: 09/708,786
; PRIOR FILING DATE: 2000-11-08
; PRIOR APPLICATION NUMBER: 09/412,947
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: 60/164,182
; PRIOR FILING DATE: 1999-11-09
; PRIOR APPLICATION NUMBER: 60/103,098
; PRIOR FILING DATE: 1998-10-05
; PRIOR APPLICATION NUMBER: 09/022,965
; PRIOR FILING DATE: 1998-02-12
; PRIOR APPLICATION NUMBER: 08/532,979
; PRIOR FILING DATE: 1995-09-22
; PRIOR APPLICATION NUMBER: 08/516,454
; PRIOR FILING DATE: 1995-08-17
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 4
;   LENGTH: 18
;   TYPE: DNA
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: Description of Combined DNA/RNA Molecule: Synthetic
;   OTHER INFORMATION: oligonucleotide
;   FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: Synthetic

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; OTHER INFORMATION: oligonucleotide  
US-10-854-989-4

Query Match 81.0%; Score 17; DB 10; Length 18;  
Best Local Similarity 88.2%; Pred. No. 5e+02;  
Matches 15; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 5 GCGUGCCUCCUCACUGG 21  
|||||||:|:|||||  
Db 1 GCGUGCCTCCTCACUGG 17

Search completed: November 20, 2006, 07:28:40  
Job time : 1421 secs

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SCORE 1.3 BuildDate: 12/06/2005

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# SCORE Search Results Details for Application 10728491 and Search Result us-10-728-491-1.max.rnpbn.

<a href="#">Score Home</a>	<a href="#">Retrieve Application</a>	<a href="#">SCORE System</a>	<a href="#">SCORE</a>	<a href="#">Comments /</a>
<a href="#">Page</a>	<a href="#">List</a>	<a href="#">Overview</a>	<a href="#">FAQ</a>	<a href="#">Suggestions</a>

This page gives you Search Results detail for the Application 10728491 and Search Result us-10-728-491-1.max.rnpbn.

[start](#)

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GenCore version 5.1.9  
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OM nucleic - nucleic search, using sw model

Run on: November 20, 2006, 05:56:36 ; Search time 128 Seconds  
(without alignments)  
326.235 Million cell updates/sec

Title: US-10-728-491-1  
Perfect score: 21  
Sequence: 1 ggcugcgugccuccucacugg 21

Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapext 1.0

Searched: 2477703 seqs, 994239549 residues

Total number of hits satisfying chosen parameters: 3180896

Minimum DB seq length: 0  
Maximum DB seq length: 30

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 1000 summaries

Database : Published Applications NA New:\*

- 1: /EMC\_Celerra\_SIDS3/ptodata/1/pubpna/US09\_NEW\_PUB.seq:\*
- 2: /EMC\_Celerra\_SIDS3/ptodata/1/pubpna/US06\_NEW\_PUB.seq:\*
- 3: /EMC\_Celerra\_SIDS3/ptodata/1/pubpna/US07\_NEW\_PUB.seq:\*
- 4: /EMC\_Celerra\_SIDS3/ptodata/1/pubpna/US08\_NEW\_PUB.seq:\*
- 5: /EMC\_Celerra\_SIDS3/ptodata/1/pubpna/PCT\_NEW\_PUB.seq:\*
- 6: /EMC\_Celerra\_SIDS3/ptodata/1/pubpna/US10\_NEW\_PUB.seq:\*
- 7: /EMC\_Celerra\_SIDS3/ptodata/1/pubpna/US11\_NEW\_PUB.seq:\*
- 8: /EMC\_Celerra\_SIDS3/ptodata/1/pubpna/US11\_NEW\_PUB.seq1:\*
- 9: /EMC\_Celerra\_SIDS3/ptodata/1/pubpna/US11\_NEW\_PUB.seq2:\*
- 10: /EMC\_Celerra\_SIDS3/ptodata/1/pubpna/US60\_NEW\_PUB.seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	%		Query Match	Length	DB	ID	Description
	Score	Match					
c	1	13.6	64.8	25	9	US-11-348-413-622759	Sequence 622759,
	2	13.2	62.9	25	7	US-11-389-343-574	Sequence 574, App
	3	13.2	62.9	25	7	US-11-389-017-574	Sequence 574, App
c	4	13.2	62.9	25	8	US-11-217-529-137062	Sequence 137062,
c	5	13	61.9	18	6	US-10-524-193A-18	Sequence 18, Appl
	6	13	61.9	25	8	US-11-217-529-36189	Sequence 36189, A
	7	13	61.9	25	8	US-11-217-529-48938	Sequence 48938, A
c	8	12.8	61.0	25	8	US-11-217-529-68255	Sequence 68255, A
c	9	12.6	60.0	25	8	US-11-217-529-35669	Sequence 35669, A
c	10	12.6	60.0	25	9	US-11-348-413-648389	Sequence 648389,
	11	12.6	60.0	27	6	US-10-519-335-18	Sequence 18, Appl
	12	12.6	60.0	27	6	US-10-519-335-22	Sequence 22, Appl
c	13	12.4	59.0	16	6	US-10-529-163-14	Sequence 14, Appl
	14	12.4	59.0	22	6	US-10-536-369-301	Sequence 301, App
	15	12.4	59.0	25	8	US-11-217-529-27170	Sequence 27170, A
c	16	12.2	58.1	25	8	US-11-217-529-163600	Sequence 163600,
	17	12.2	58.1	25	9	US-11-348-413-368971	Sequence 368971,
	18	12.2	58.1	25	9	US-11-348-413-368972	Sequence 368972,
	19	12.2	58.1	25	9	US-11-348-413-368973	Sequence 368973,
	20	12.2	58.1	25	9	US-11-348-413-368974	Sequence 368974,
	21	12.2	58.1	25	9	US-11-348-413-368975	Sequence 368975,
c	22	12.2	58.1	25	9	US-11-348-413-387703	Sequence 387703,
c	23	12.2	58.1	25	9	US-11-348-413-387704	Sequence 387704,
c	24	12.2	58.1	25	9	US-11-348-413-387705	Sequence 387705,
c	25	12.2	58.1	25	9	US-11-348-413-387706	Sequence 387706,
c	26	12.2	58.1	25	9	US-11-348-413-387707	Sequence 387707,
c	27	12.2	58.1	25	9	US-11-348-413-387708	Sequence 387708,
c	28	12.2	58.1	25	9	US-11-348-413-387709	Sequence 387709,
c	29	12.2	58.1	25	9	US-11-348-413-450436	Sequence 450436,
c	30	12.2	58.1	25	9	US-11-348-413-450437	Sequence 450437,
c	31	12.2	58.1	25	9	US-11-348-413-450438	Sequence 450438,
c	32	12.2	58.1	25	9	US-11-348-413-450439	Sequence 450439,
c	33	12.2	58.1	25	9	US-11-348-413-450440	Sequence 450440,
c	34	12.2	58.1	25	9	US-11-348-413-450441	Sequence 450441,
c	35	12.2	58.1	25	9	US-11-348-413-450442	Sequence 450442,
c	36	12.2	58.1	25	9	US-11-348-413-450443	Sequence 450443,
c	37	12.2	58.1	25	9	US-11-348-413-450444	Sequence 450444,
	38	12.2	58.1	25	9	US-11-348-413-830449	Sequence 830449,
c	39	12.2	58.1	25	9	US-11-348-413-849250	Sequence 849250,
c	40	12.2	58.1	25	9	US-11-348-413-1007606	Sequence 1007606,
	41	12.2	58.1	25	9	US-11-348-413-1007623	Sequence 1007623,
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	43	12.2	58.1	25	9	US-11-348-413-1007625	Sequence 1007625,
	44	12.2	58.1	25	9	US-11-348-413-1007626	Sequence 1007626,
	45	12.2	58.1	25	9	US-11-348-413-1007627	Sequence 1007627,
	46	12.2	58.1	25	9	US-11-348-413-1007628	Sequence 1007628,
	47	12.2	58.1	25	9	US-11-348-413-1007629	Sequence 1007629,
	48	12.2	58.1	25	9	US-11-348-413-1007630	Sequence 1007630,
c	49	12.2	58.1	25	9	US-11-348-413-1026810	Sequence 1026810,
c	50	12.2	58.1	25	9	US-11-348-413-1026811	Sequence 1026811,
c	51	12.2	58.1	25	9	US-11-348-413-1092501	Sequence 1092501,
c	52	12.2	58.1	25	9	US-11-348-413-1092502	Sequence 1092502,
	53	12	57.1	25	8	US-11-217-529-21831	Sequence 21831, A
c	54	12	57.1	25	8	US-11-217-529-23698	Sequence 23698, A
	55	12	57.1	25	8	US-11-217-529-27206	Sequence 27206, A
	56	12	57.1	25	8	US-11-217-529-57271	Sequence 57271, A
	57	12	57.1	25	8	US-11-217-529-109875	Sequence 109875,

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	59	12	57.1	25	8	US-11-217-529-132619	Sequence 132619,
	60	12	57.1	25	8	US-11-217-529-132621	Sequence 132621,
	61	12	57.1	25	8	US-11-217-529-132642	Sequence 132642,
	62	12	57.1	25	9	US-11-348-413-641936	Sequence 641936,
c	63	12	57.1	25	9	US-11-348-413-669138	Sequence 669138,
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	65	11.8	56.2	17	6	US-10-858-164-476	Sequence 476, App
	66	11.8	56.2	17	6	US-10-858-146-476	Sequence 476, App
	67	11.8	56.2	19	6	US-10-858-013-475	Sequence 475, App
c	68	11.8	56.2	19	6	US-10-536-932-67	Sequence 67, Appl
	69	11.8	56.2	19	6	US-10-858-164-475	Sequence 475, App
	70	11.8	56.2	19	6	US-10-858-146-475	Sequence 475, App
c	71	11.8	56.2	19	7	US-11-112-926-812	Sequence 812, App
	72	11.8	56.2	20	1	US-09-912-968-17	Sequence 17, Appl
c	73	11.8	56.2	20	6	US-10-987-453-149	Sequence 149, App
c	74	11.8	56.2	20	6	US-10-536-932-61	Sequence 61, Appl
c	75	11.8	56.2	20	6	US-10-536-932-73	Sequence 73, Appl
	76	11.8	56.2	21	6	US-10-858-013-474	Sequence 474, App
	77	11.8	56.2	21	6	US-10-858-164-474	Sequence 474, App
	78	11.8	56.2	21	6	US-10-858-146-474	Sequence 474, App
	79	11.8	56.2	21	7	US-11-370-584-9808	Sequence 9808, Ap
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	81	11.8	56.2	23	6	US-10-858-013-640	Sequence 640, App
	82	11.8	56.2	23	6	US-10-858-164-473	Sequence 473, App
	83	11.8	56.2	23	6	US-10-858-164-640	Sequence 640, App
	84	11.8	56.2	23	6	US-10-858-146-473	Sequence 473, App
	85	11.8	56.2	23	6	US-10-858-146-640	Sequence 640, App
	86	11.8	56.2	25	6	US-10-858-013-31	Sequence 31, Appl
	87	11.8	56.2	25	6	US-10-858-013-441	Sequence 441, App
	88	11.8	56.2	25	6	US-10-858-013-457	Sequence 457, App
	89	11.8	56.2	25	6	US-10-858-013-458	Sequence 458, App
	90	11.8	56.2	25	6	US-10-858-013-459	Sequence 459, App
	91	11.8	56.2	25	6	US-10-858-013-480	Sequence 480, App
	92	11.8	56.2	25	6	US-10-858-013-639	Sequence 639, App
	93	11.8	56.2	25	6	US-10-858-164-31	Sequence 31, Appl
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	95	11.8	56.2	25	6	US-10-858-164-457	Sequence 457, App
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	97	11.8	56.2	25	6	US-10-858-164-459	Sequence 459, App
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	102	11.8	56.2	25	6	US-10-858-146-457	Sequence 457, App
	103	11.8	56.2	25	6	US-10-858-146-458	Sequence 458, App
	104	11.8	56.2	25	6	US-10-858-146-459	Sequence 459, App
	105	11.8	56.2	25	6	US-10-858-146-480	Sequence 480, App
	106	11.8	56.2	25	6	US-10-858-146-639	Sequence 639, App
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	112	11.8	56.2	25	9	US-11-348-413-684302	Sequence 684302,
c	113	11.8	56.2	25	9	US-11-348-413-820035	Sequence 820035,
	114	11.8	56.2	26	6	US-10-858-013-442	Sequence 442, App
	115	11.8	56.2	26	6	US-10-858-013-447	Sequence 447, App
	116	11.8	56.2	26	6	US-10-858-013-502	Sequence 502, App
	117	11.8	56.2	26	6	US-10-858-013-503	Sequence 503, App
	118	11.8	56.2	26	6	US-10-858-013-504	Sequence 504, App



119	11.8	56.2	26	6	US-10-858-013-505	Sequence 505, App
120	11.8	56.2	26	6	US-10-858-164-442	Sequence 442, App
121	11.8	56.2	26	6	US-10-858-164-447	Sequence 447, App
122	11.8	56.2	26	6	US-10-858-164-502	Sequence 502, App
123	11.8	56.2	26	6	US-10-858-164-503	Sequence 503, App
124	11.8	56.2	26	6	US-10-858-164-504	Sequence 504, App
125	11.8	56.2	26	6	US-10-858-164-505	Sequence 505, App
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129	11.8	56.2	26	6	US-10-858-146-503	Sequence 503, App
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131	11.8	56.2	26	6	US-10-858-146-505	Sequence 505, App
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133	11.8	56.2	27	6	US-10-858-013-448	Sequence 448, App
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135	11.8	56.2	27	6	US-10-858-013-638	Sequence 638, App
136	11.8	56.2	27	6	US-10-858-013-648	Sequence 648, App
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147	11.8	56.2	28	6	US-10-858-013-444	Sequence 444, App
148	11.8	56.2	28	6	US-10-858-013-449	Sequence 449, App
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154	11.8	56.2	29	6	US-10-858-013-450	Sequence 450, App
155	11.8	56.2	29	6	US-10-858-013-453	Sequence 453, App
156	11.8	56.2	29	6	US-10-858-013-489	Sequence 489, App
157	11.8	56.2	29	6	US-10-858-013-637	Sequence 637, App
158	11.8	56.2	29	6	US-10-858-013-647	Sequence 647, App
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160	11.8	56.2	29	6	US-10-858-164-450	Sequence 450, App
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162	11.8	56.2	29	6	US-10-858-164-489	Sequence 489, App
163	11.8	56.2	29	6	US-10-858-164-637	Sequence 637, App
164	11.8	56.2	29	6	US-10-858-164-647	Sequence 647, App
165	11.8	56.2	29	6	US-10-858-146-445	Sequence 445, App
166	11.8	56.2	29	6	US-10-858-146-450	Sequence 450, App
167	11.8	56.2	29	6	US-10-858-146-453	Sequence 453, App
168	11.8	56.2	29	6	US-10-858-146-489	Sequence 489, App
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172	11.8	56.2	30	6	US-10-858-013-451	Sequence 451, App
173	11.8	56.2	30	6	US-10-858-013-490	Sequence 490, App
174	11.8	56.2	30	6	US-10-858-164-446	Sequence 446, App
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177	11.8	56.2	30	6	US-10-858-146-446	Sequence 446, App
178	11.8	56.2	30	6	US-10-858-146-451	Sequence 451, App
179	11.8	56.2	30	6	US-10-858-146-490	Sequence 490, App

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c 182	11.6	55.2	24	6	US-10-554-887-79	Sequence 79, Appl
c 183	11.6	55.2	25	8	US-11-217-529-87245	Sequence 87245, A
c 184	11.6	55.2	25	9	US-11-348-413-94040	Sequence 94040, A
c 185	11.6	55.2	25	9	US-11-348-413-455776	Sequence 455776,
c 186	11.6	55.2	25	9	US-11-348-413-455777	Sequence 455777,
c 187	11.6	55.2	25	9	US-11-348-413-455778	Sequence 455778,
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c 189	11.6	55.2	25	9	US-11-348-413-455780	Sequence 455780,
c 190	11.6	55.2	25	9	US-11-348-413-455781	Sequence 455781,
c 191	11.6	55.2	25	9	US-11-348-413-685251	Sequence 685251,
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c 196	11.6	55.2	25	9	US-11-348-413-1055081	Sequence 1055081,
c 197	11.6	55.2	25	9	US-11-348-413-1098019	Sequence 1098019,
c 198	11.6	55.2	25	9	US-11-348-413-1098020	Sequence 1098020,
c 199	11.6	55.2	25	9	US-11-348-413-1098021	Sequence 1098021,
c 200	11.6	55.2	25	9	US-11-348-413-1098022	Sequence 1098022,
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c 202	11.4	54.3	20	7	US-11-366-965-3009	Sequence 3009, Ap
c 203	11.4	54.3	21	7	US-11-334-776-282	Sequence 282, App
c 204	11.4	54.3	21	7	US-11-303-745-206	Sequence 206, App
205	11.4	54.3	22	9	US-11-238-035-41	Sequence 41, Appl
206	11.4	54.3	22	9	US-11-238-035-53	Sequence 53, Appl
c 207	11.4	54.3	24	7	US-11-231-318-194	Sequence 194, App
c 208	11.4	54.3	25	8	US-11-217-529-8909	Sequence 8909, Ap
209	11.4	54.3	25	8	US-11-217-529-123635	Sequence 123635,
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211	11.4	54.3	25	8	US-11-217-529-135969	Sequence 135969,
212	11.4	54.3	25	8	US-11-217-529-135975	Sequence 135975,
c 213	11.4	54.3	25	8	US-11-217-529-178436	Sequence 178436,
c 214	11.4	54.3	25	8	US-11-217-529-189006	Sequence 189006,
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c 216	11.4	54.3	25	9	US-11-348-413-300035	Sequence 300035,
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218	11.4	54.3	25	9	US-11-348-413-510368	Sequence 510368,
219	11.4	54.3	25	9	US-11-348-413-510369	Sequence 510369,
220	11.4	54.3	25	9	US-11-348-413-510370	Sequence 510370,
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222	11.4	54.3	25	9	US-11-348-413-510372	Sequence 510372,
223	11.4	54.3	25	9	US-11-348-413-510373	Sequence 510373,
224	11.4	54.3	25	9	US-11-348-413-510374	Sequence 510374,
225	11.4	54.3	25	9	US-11-348-413-510375	Sequence 510375,
c 226	11.4	54.3	25	9	US-11-348-413-545464	Sequence 545464,
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c 231	11.4	54.3	25	9	US-11-348-413-545469	Sequence 545469,
c 232	11.4	54.3	25	9	US-11-348-413-545470	Sequence 545470,
c 233	11.4	54.3	25	9	US-11-348-413-545471	Sequence 545471,
c 234	11.4	54.3	25	9	US-11-348-413-613979	Sequence 613979,
c 235	11.4	54.3	25	9	US-11-348-413-613980	Sequence 613980,
c 236	11.4	54.3	25	9	US-11-348-413-662283	Sequence 662283,
c 237	11.4	54.3	25	9	US-11-348-413-662284	Sequence 662284,
238	11.4	54.3	25	9	US-11-348-413-781138	Sequence 781138,
239	11.4	54.3	25	9	US-11-348-413-867737	Sequence 867737,
c 240	11.4	54.3	25	9	US-11-348-413-923362	Sequence 923362,

c 241	11.4	54.3	25	9	US-11-348-413-1078110	Sequence 1078110,
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243	11.4	54.3	25	9	US-11-348-413-1152586	Sequence 1152586,
244	11.4	54.3	25	9	US-11-348-413-1161344	Sequence 1161344,
245	11.4	54.3	25	9	US-11-348-413-1161345	Sequence 1161345,
246	11.4	54.3	25	9	US-11-348-413-1161346	Sequence 1161346,
c 247	11.4	54.3	25	9	US-11-348-413-1197939	Sequence 1197939,
c 248	11.4	54.3	25	9	US-11-348-413-1206488	Sequence 1206488,
c 249	11.4	54.3	25	9	US-11-348-413-1206489	Sequence 1206489,
c 250	11.4	54.3	25	9	US-11-348-413-1206490	Sequence 1206490,
c 251	11.4	54.3	29	7	US-11-218-976-41	Sequence 41, Appl
c 252	11.2	53.3	17	9	US-11-255-139A-5846	Sequence 5846, Ap
253	11.2	53.3	21	6	US-10-529-169-6	Sequence 6, Appli
254	11.2	53.3	21	7	US-11-370-584-10793	Sequence 10793, A
c 255	11.2	53.3	22	7	US-11-398-765-14	Sequence 14, Appl
c 256	11.2	53.3	24	6	US-10-537-228A-2	Sequence 2, Appli
c 257	11.2	53.3	24	6	US-10-537-228A-56	Sequence 56, Appl
c 258	11.2	53.3	25	8	US-11-217-529-23373	Sequence 23373, A
c 259	11.2	53.3	25	8	US-11-217-529-52328	Sequence 52328, A
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c 261	11.2	53.3	25	8	US-11-217-529-72953	Sequence 72953, A
262	11.2	53.3	25	8	US-11-217-529-91571	Sequence 91571, A
263	11.2	53.3	25	8	US-11-217-529-101130	Sequence 101130,
c 264	11.2	53.3	25	8	US-11-217-529-107647	Sequence 107647,
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266	11.2	53.3	25	8	US-11-217-529-177112	Sequence 177112,
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271	11.2	53.3	25	8	US-11-217-529-177122	Sequence 177122,
c 272	11.2	53.3	25	8	US-11-217-529-196035	Sequence 196035,
c 273	11.2	53.3	25	9	US-11-348-413-30413	Sequence 30413, A
c 274	11.2	53.3	25	9	US-11-348-413-30414	Sequence 30414, A
c 275	11.2	53.3	25	9	US-11-348-413-30415	Sequence 30415, A
c 276	11.2	53.3	25	9	US-11-348-413-47355	Sequence 47355, A
c 277	11.2	53.3	25	9	US-11-348-413-47356	Sequence 47356, A
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c 283	11.2	53.3	25	9	US-11-348-413-362001	Sequence 362001,
c 284	11.2	53.3	25	9	US-11-348-413-362002	Sequence 362002,
c 285	11.2	53.3	25	9	US-11-348-413-362003	Sequence 362003,
c 286	11.2	53.3	25	9	US-11-348-413-362004	Sequence 362004,
c 287	11.2	53.3	25	9	US-11-348-413-362005	Sequence 362005,
c 288	11.2	53.3	25	9	US-11-348-413-362006	Sequence 362006,
c 289	11.2	53.3	25	9	US-11-348-413-362007	Sequence 362007,
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298	11.2	53.3	25	9	US-11-348-413-362039	Sequence 362039,
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c 304	11.2	53.3	25	9	US-11-348-413-450445	Sequence 450445,
c 305	11.2	53.3	25	9	US-11-348-413-618242	Sequence 618242,
c 306	11.2	53.3	25	9	US-11-348-413-690185	Sequence 690185,
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312	11.2	53.3	25	9	US-11-348-413-1001192	Sequence 1001192,
313	11.2	53.3	25	9	US-11-348-413-1001193	Sequence 1001193,
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c 319	11.2	53.3	25	9	US-11-348-413-1090575	Sequence 1090575,
c 320	11.2	53.3	25	9	US-11-348-413-1092500	Sequence 1092500,
321	11.2	53.3	27	6	US-10-354-953-666	Sequence 666, App
322	11.2	53.3	28	6	US-10-354-953-1056	Sequence 1056, Ap
c 323	11.2	53.3	30	6	US-10-221-036-12	Sequence 12, Appl
324	11.2	53.3	30	6	US-10-221-036-13	Sequence 13, Appl
325	11.2	53.3	30	9	US-11-369-089-17	Sequence 17, Appl
c 326	11	52.4	18	6	US-10-551-964-40	Sequence 40, Appl
327	11	52.4	19	7	US-11-303-452-1763	Sequence 1763, Ap
328	11	52.4	19	7	US-11-303-452-1765	Sequence 1765, Ap
c 329	11	52.4	20	6	US-10-469-938A-186	Sequence 186, App
330	11	52.4	20	6	US-10-533-166-30	Sequence 30, Appl
c 331	11	52.4	20	6	US-10-533-166-31	Sequence 31, Appl
332	11	52.4	20	7	US-11-376-033-141	Sequence 141, App
333	11	52.4	20	7	US-11-376-033-262	Sequence 262, App
334	11	52.4	20	9	US-11-334-885-2	Sequence 2, Appli
c 335	11	52.4	20	9	US-11-334-885-3	Sequence 3, Appli
c 336	11	52.4	24	7	US-11-231-318-1496	Sequence 1496, Ap
337	11	52.4	25	8	US-11-217-529-36261	Sequence 36261, A
338	11	52.4	25	8	US-11-217-529-46451	Sequence 46451, A
339	11	52.4	25	8	US-11-217-529-46453	Sequence 46453, A
c 340	11	52.4	25	8	US-11-217-529-83993	Sequence 83993, A
341	11	52.4	25	8	US-11-217-529-99066	Sequence 99066, A
342	11	52.4	25	8	US-11-217-529-142727	Sequence 142727,
343	11	52.4	25	8	US-11-217-529-155214	Sequence 155214,
344	11	52.4	25	8	US-11-217-529-155216	Sequence 155216,
345	11	52.4	25	8	US-11-217-529-161321	Sequence 161321,
346	11	52.4	25	8	US-11-217-529-170080	Sequence 170080,
347	11	52.4	25	8	US-11-217-529-183014	Sequence 183014,
348	11	52.4	25	8	US-11-217-529-183017	Sequence 183017,
349	11	52.4	25	8	US-11-217-529-183019	Sequence 183019,
350	11	52.4	25	8	US-11-217-529-183020	Sequence 183020,
351	11	52.4	25	8	US-11-217-529-183023	Sequence 183023,
352	11	52.4	25	8	US-11-217-529-194051	Sequence 194051,
353	11	52.4	25	8	US-11-217-529-194055	Sequence 194055,
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c 356	11	52.4	25	9	US-11-348-413-272430	Sequence 272430,
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c 367	11	52.4	25	9	US-11-348-413-887118	Sequence 887118,
c 368	11	52.4	25	9	US-11-348-413-963709	Sequence 963709,
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c 371	11	52.4	25	9	US-11-348-413-1073494	Sequence 1073494,
c 372	11	52.4	25	9	US-11-348-413-1269197	Sequence 1269197,
c 373	11	52.4	27	6	US-10-529-169-10	Sequence 10, Appl
374	11	52.4	30	6	US-10-507-446A-5	Sequence 5, Appli
375	11	52.4	30	6	US-10-522-341A-152	Sequence 152, App
c 376	11	52.4	30	7	US-11-015-117-29	Sequence 29, Appl
377	10.8	51.4	15	6	US-10-858-013-477	Sequence 477, App
378	10.8	51.4	15	6	US-10-858-164-477	Sequence 477, App
379	10.8	51.4	15	6	US-10-858-146-477	Sequence 477, App
380	10.8	51.4	18	7	US-11-266-999-47	Sequence 47, Appl
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382	10.8	51.4	20	7	US-11-303-745-18	Sequence 18, Appl
383	10.8	51.4	20	7	US-11-376-033-333	Sequence 333, App
384	10.8	51.4	20	7	US-11-376-033-334	Sequence 334, App
385	10.8	51.4	20	7	US-11-376-033-335	Sequence 335, App
386	10.8	51.4	20	7	US-11-366-965-2376	Sequence 2376, Ap
c 387	10.8	51.4	21	7	US-11-334-776-283	Sequence 283, App
388	10.8	51.4	21	7	US-11-303-745-36	Sequence 36, Appl
c 389	10.8	51.4	21	7	US-11-303-745-62	Sequence 62, Appl
c 390	10.8	51.4	21	7	US-11-303-745-207	Sequence 207, App
c 391	10.8	51.4	21	7	US-11-303-745-307	Sequence 307, App
392	10.8	51.4	21	7	US-11-231-318-3	Sequence 3, Appli
c 393	10.8	51.4	21	7	US-11-231-318-30	Sequence 30, Appl
394	10.8	51.4	21	7	US-11-231-318-1709	Sequence 1709, Ap
395	10.8	51.4	21	7	US-11-231-318-1710	Sequence 1710, Ap
396	10.8	51.4	21	7	US-11-393-206-35	Sequence 35, Appl
c 397	10.8	51.4	21	7	US-11-393-206-93	Sequence 93, Appl
c 398	10.8	51.4	22	7	US-11-318-659-4	Sequence 4, Appli
399	10.8	51.4	23	6	US-10-858-013-467	Sequence 467, App
400	10.8	51.4	23	6	US-10-858-164-467	Sequence 467, App
401	10.8	51.4	23	6	US-10-858-146-467	Sequence 467, App
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403	10.8	51.4	25	8	US-11-217-529-60167	Sequence 60167, A
404	10.8	51.4	25	8	US-11-217-529-64015	Sequence 64015, A
405	10.8	51.4	25	8	US-11-217-529-110801	Sequence 110801,
c 406	10.8	51.4	25	8	US-11-217-529-133867	Sequence 133867,
407	10.8	51.4	25	8	US-11-217-529-134812	Sequence 134812,
408	10.8	51.4	25	8	US-11-217-529-134820	Sequence 134820,
409	10.8	51.4	25	8	US-11-217-529-137998	Sequence 137998,
410	10.8	51.4	25	8	US-11-217-529-150529	Sequence 150529,
411	10.8	51.4	25	8	US-11-217-529-165114	Sequence 165114,
c 412	10.8	51.4	25	9	US-11-348-413-78033	Sequence 78033, A
c 413	10.8	51.4	25	9	US-11-348-413-78034	Sequence 78034, A
c 414	10.8	51.4	25	9	US-11-348-413-78035	Sequence 78035, A
c 415	10.8	51.4	25	9	US-11-348-413-78036	Sequence 78036, A
c 416	10.8	51.4	25	9	US-11-348-413-78037	Sequence 78037, A
c 417	10.8	51.4	25	9	US-11-348-413-78038	Sequence 78038, A
c 418	10.8	51.4	25	9	US-11-348-413-78039	Sequence 78039, A
c 419	10.8	51.4	25	9	US-11-348-413-78040	Sequence 78040, A
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c 423	10.8	51.4	25	9	US-11-348-413-231655	Sequence 231655,

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427	10.8	51.4	25	9	US-11-348-413-338957	Sequence 338957,
428	10.8	51.4	25	9	US-11-348-413-338958	Sequence 338958,
429	10.8	51.4	25	9	US-11-348-413-338959	Sequence 338959,
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431	10.8	51.4	25	9	US-11-348-413-362040	Sequence 362040,
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434	10.8	51.4	25	9	US-11-348-413-654895	Sequence 654895,
c 435	10.8	51.4	25	9	US-11-348-413-669710	Sequence 669710,
c 436	10.8	51.4	25	9	US-11-348-413-669711	Sequence 669711,
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438	10.8	51.4	25	9	US-11-348-413-682990	Sequence 682990,
c 439	10.8	51.4	25	9	US-11-348-413-844059	Sequence 844059,
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441	10.8	51.4	25	9	US-11-348-413-968110	Sequence 968110,
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c 445	10.8	51.4	25	9	US-11-348-413-1026809	Sequence 1026809,
446	10.8	51.4	25	9	US-11-348-413-1050992	Sequence 1050992,
447	10.8	51.4	26	6	US-10-858-013-506	Sequence 506, App
448	10.8	51.4	26	6	US-10-858-164-506	Sequence 506, App
449	10.8	51.4	26	6	US-10-858-146-506	Sequence 506, App
450	10.8	51.4	26	8	US-11-178-538-43	Sequence 43, Appl
451	10.8	51.4	26	8	US-11-322-523-2	Sequence 2, Appli
452	10.8	51.4	28	6	US-10-858-013-488	Sequence 488, App
453	10.8	51.4	28	6	US-10-858-164-488	Sequence 488, App
454	10.8	51.4	28	6	US-10-858-146-488	Sequence 488, App
455	10.8	51.4	30	6	US-10-858-013-493	Sequence 493, App
456	10.8	51.4	30	6	US-10-858-164-493	Sequence 493, App
457	10.8	51.4	30	6	US-10-858-146-493	Sequence 493, App
c 458	10.6	50.5	19	6	US-10-825-485-43	Sequence 43, Appl
459	10.6	50.5	19	6	US-10-825-485-350	Sequence 350, App
460	10.6	50.5	19	7	US-11-303-452-1647	Sequence 1647, Ap
461	10.6	50.5	19	7	US-11-303-452-1761	Sequence 1761, Ap
462	10.6	50.5	19	7	US-11-360-305-1001	Sequence 1001, Ap
c 463	10.6	50.5	19	9	US-11-217-936-2874	Sequence 2874, Ap
464	10.6	50.5	19	9	US-11-217-936-3101	Sequence 3101, Ap
465	10.6	50.5	20	7	US-11-370-584-11616	Sequence 11616, A
466	10.6	50.5	20	9	US-11-293-598-29	Sequence 29, Appl
467	10.6	50.5	21	6	US-10-511-937-1461	Sequence 1461, Ap
468	10.6	50.5	21	7	US-11-370-584-10682	Sequence 10682, A
469	10.6	50.5	22	6	US-10-354-953-681	Sequence 681, App
c 470	10.6	50.5	22	7	US-11-078-841-5	Sequence 5, Appli
471	10.6	50.5	23	7	US-11-112-926-566	Sequence 566, App
c 472	10.6	50.5	23	8	US-11-283-550-1332	Sequence 1332, Ap
c 473	10.6	50.5	23	8	US-11-283-550-1333	Sequence 1333, Ap
c 474	10.6	50.5	23	8	US-11-283-550-1334	Sequence 1334, Ap
c 475	10.6	50.5	23	8	US-11-283-550-1335	Sequence 1335, Ap
c 476	10.6	50.5	23	8	US-11-283-550-1336	Sequence 1336, Ap
c 477	10.6	50.5	23	8	US-11-283-550-1337	Sequence 1337, Ap
c 478	10.6	50.5	23	8	US-11-283-550-1338	Sequence 1338, Ap
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c 481	10.6	50.5	25	8	US-11-217-529-38775	Sequence 38775, A
482	10.6	50.5	25	8	US-11-217-529-50267	Sequence 50267, A
483	10.6	50.5	25	8	US-11-217-529-50435	Sequence 50435, A
484	10.6	50.5	25	8	US-11-217-529-53194	Sequence 53194, A

485	10.6	50.5	25	8	US-11-217-529-69558	Sequence 69558, A
486	10.6	50.5	25	8	US-11-217-529-86076	Sequence 86076, A
487	10.6	50.5	25	8	US-11-217-529-94617	Sequence 94617, A
c 488	10.6	50.5	25	8	US-11-217-529-94691	Sequence 94691, A
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c 493	10.6	50.5	25	8	US-11-217-529-118924	Sequence 118924,
c 494	10.6	50.5	25	8	US-11-217-529-145307	Sequence 145307,
c 495	10.6	50.5	25	8	US-11-217-529-146523	Sequence 146523,
c 496	10.6	50.5	25	8	US-11-217-529-148299	Sequence 148299,
497	10.6	50.5	25	8	US-11-217-529-163171	Sequence 163171,
c 498	10.6	50.5	25	8	US-11-217-529-172328	Sequence 172328,
499	10.6	50.5	25	8	US-11-217-529-183013	Sequence 183013,
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c 501	10.6	50.5	25	8	US-11-217-529-189769	Sequence 189769,
c 502	10.6	50.5	25	8	US-11-217-529-194130	Sequence 194130,
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c 531	10.6	50.5	25	9	US-11-348-413-669137	Sequence 669137,
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c 533	10.6	50.5	25	9	US-11-348-413-690794	Sequence 690794,
c 534	10.6	50.5	25	9	US-11-348-413-707706	Sequence 707706,
535	10.6	50.5	25	9	US-11-348-413-710746	Sequence 710746,
536	10.6	50.5	25	9	US-11-348-413-716958	Sequence 716958,
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c 538	10.6	50.5	25	9	US-11-348-413-745566	Sequence 745566,
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c 543	10.6	50.5	25	9	US-11-348-413-852093	Sequence 852093,
c 544	10.6	50.5	25	9	US-11-348-413-862835	Sequence 862835,
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558	10.6	50.5	25	9	US-11-348-413-1126406	Sequence 1126406,
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c 560	10.6	50.5	26	7	US-11-374-326-183	Sequence 183, App
c 561	10.6	50.5	27	9	US-11-372-216-9	Sequence 9, Appli
c 562	10.6	50.5	30	6	US-10-723-683-1039	Sequence 1039, Ap
563	10.4	49.5	15	7	US-11-320-072-237	Sequence 237, App
564	10.4	49.5	17	6	US-10-559-426-48	Sequence 48, Appl
c 565	10.4	49.5	18	6	US-10-536-932-42	Sequence 42, Appl
566	10.4	49.5	18	7	US-11-370-584-4482	Sequence 4482, Ap
c 567	10.4	49.5	19	9	US-11-217-936-2277	Sequence 2277, Ap
568	10.4	49.5	19	9	US-11-217-936-2572	Sequence 2572, Ap
c 569	10.4	49.5	20	6	US-10-511-937-963	Sequence 963, App
570	10.4	49.5	20	6	US-10-553-298-32	Sequence 32, Appl
c 571	10.4	49.5	20	6	US-10-535-914-17	Sequence 17, Appl
c 572	10.4	49.5	20	6	US-10-670-984-1245	Sequence 1245, Ap
573	10.4	49.5	20	6	US-10-539-178-107	Sequence 107, App
c 574	10.4	49.5	20	6	US-10-526-543-22	Sequence 22, Appl
575	10.4	49.5	20	7	US-11-375-359-521	Sequence 521, App
576	10.4	49.5	20	7	US-11-073-360-17276	Sequence 17276, A
c 577	10.4	49.5	20	7	US-11-366-965-4418	Sequence 4418, Ap
578	10.4	49.5	20	7	US-11-366-965-5389	Sequence 5389, Ap
579	10.4	49.5	20	7	US-11-213-593-87	Sequence 87, Appl
c 580	10.4	49.5	20	8	US-11-257-502-154	Sequence 154, App
c 581	10.4	49.5	20	8	US-11-178-724-42	Sequence 42, Appl
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583	10.4	49.5	21	6	US-10-858-013-641	Sequence 641, App
584	10.4	49.5	21	6	US-10-858-164-468	Sequence 468, App
585	10.4	49.5	21	6	US-10-858-164-641	Sequence 641, App
586	10.4	49.5	21	6	US-10-858-146-468	Sequence 468, App
587	10.4	49.5	21	6	US-10-858-146-641	Sequence 641, App
c 588	10.4	49.5	21	7	US-11-317-660-272	Sequence 272, App
589	10.4	49.5	21	7	US-11-317-660-1031	Sequence 1031, Ap
c 590	10.4	49.5	22	6	US-10-539-178-382	Sequence 382, App
591	10.4	49.5	22	7	US-11-374-326-21	Sequence 21, Appl
c 592	10.4	49.5	23	7	US-11-299-391-2633	Sequence 2633, Ap
c 593	10.4	49.5	23	7	US-11-340-080-285	Sequence 285, App
c 594	10.4	49.5	23	7	US-11-340-080-286	Sequence 286, App
c 595	10.4	49.5	23	7	US-11-340-080-287	Sequence 287, App
c 596	10.4	49.5	23	7	US-11-340-080-288	Sequence 288, App
c 597	10.4	49.5	23	8	US-11-257-502-167	Sequence 167, App
c 598	10.4	49.5	23	8	US-11-078-073-285	Sequence 285, App
c 599	10.4	49.5	23	8	US-11-078-073-286	Sequence 286, App
c 600	10.4	49.5	23	8	US-11-078-073-287	Sequence 287, App
c 601	10.4	49.5	23	8	US-11-078-073-288	Sequence 288, App
c 602	10.4	49.5	23	8	US-11-337-300-163	Sequence 163, App
c 603	10.4	49.5	23	9	US-11-292-414-27	Sequence 27, Appl
604	10.4	49.5	24	6	US-10-511-937-2367	Sequence 2367, Ap
c 605	10.4	49.5	24	6	US-10-972-296-18	Sequence 18, Appl
606	10.4	49.5	25	6	US-10-858-013-462	Sequence 462, App



607	10.4	49.5	25	6	US-10-858-013-479	Sequence 479, App
608	10.4	49.5	25	6	US-10-858-164-462	Sequence 462, App
609	10.4	49.5	25	6	US-10-858-164-479	Sequence 479, App
610	10.4	49.5	25	6	US-10-858-146-462	Sequence 462, App
611	10.4	49.5	25	6	US-10-858-146-479	Sequence 479, App
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c 613	10.4	49.5	25	8	US-11-217-529-11922	Sequence 11922, A
c 614	10.4	49.5	25	8	US-11-217-529-24134	Sequence 24134, A
c 615	10.4	49.5	25	8	US-11-217-529-25587	Sequence 25587, A
c 616	10.4	49.5	25	8	US-11-217-529-30810	Sequence 30810, A
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c 643	10.4	49.5	25	9	US-11-348-413-99069	Sequence 99069, A
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c 674	10.4	49.5	25	9	US-11-348-413-334166	Sequence 334166,
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c 677	10.4	49.5	25	9	US-11-348-413-454504	Sequence 454504,
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c 688	10.4	49.5	25	9	US-11-348-413-637210	Sequence 637210,
c 689	10.4	49.5	25	9	US-11-348-413-638862	Sequence 638862,
c 690	10.4	49.5	25	9	US-11-348-413-638863	Sequence 638863,
c 691	10.4	49.5	25	9	US-11-348-413-654662	Sequence 654662,
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702	10.4	49.5	25	9	US-11-348-413-707138	Sequence 707138,
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c 705	10.4	49.5	25	9	US-11-348-413-784470	Sequence 784470,
c 706	10.4	49.5	25	9	US-11-348-413-784471	Sequence 784471,
c 707	10.4	49.5	25	9	US-11-348-413-790448	Sequence 790448,
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738	10.4	49.5	25	9	US-11-348-413-1109622	Sequence 1109622,
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741	10.4	49.5	26	6	US-10-525-725-13	Sequence 13, Appl
742	10.4	49.5	26	7	US-11-260-845-316	Sequence 316, App
c 743	10.4	49.5	26	7	US-11-196-503A-80	Sequence 80, Appl
744	10.4	49.5	26	7	US-11-271-444-4	Sequence 4, Appli
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746	10.4	49.5	27	7	US-11-299-391-4209	Sequence 4209, Ap
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c 750	10.4	49.5	28	6	US-10-858-164-841	Sequence 841, App
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c 754	10.4	49.5	28	6	US-10-858-146-842	Sequence 842, App
c 755	10.4	49.5	28	6	US-10-858-146-843	Sequence 843, App
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769	10.4	49.5	30	7	US-11-381-977-39	Sequence 39, Appl
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c 777	10.2	48.6	19	6	US-10-424-339-422	Sequence 422, App
c 778	10.2	48.6	19	6	US-10-424-339-503	Sequence 503, App
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c 780	10.2	48.6	19	6	US-10-825-485-289	Sequence 289, App
781	10.2	48.6	19	6	US-10-825-485-596	Sequence 596, App
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787	10.2	48.6	19	9	US-11-217-936-1192	Sequence 1192, Ap
c 788	10.2	48.6	19	9	US-11-217-936-1661	Sequence 1661, Ap
c 789	10.2	48.6	19	9	US-11-184-982-40	Sequence 40, Appl

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795	10.2	48.6	20	9	US-11-294-621-143	Sequence 143, App
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799	10.2	48.6	21	7	US-11-483-855-14	Sequence 14, Appl
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806	10.2	48.6	25	6	US-10-858-164-478	Sequence 478, App
807	10.2	48.6	25	6	US-10-858-146-478	Sequence 478, App
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967	10.2	48.6	25	9	US-11-348-413-873267	Sequence 873267,
c 968	10.2	48.6	25	9	US-11-348-413-877131	Sequence 877131,
969	10.2	48.6	25	9	US-11-348-413-877270	Sequence 877270,
c 970	10.2	48.6	25	9	US-11-348-413-882752	Sequence 882752,
c 971	10.2	48.6	25	9	US-11-348-413-884469	Sequence 884469,
c 972	10.2	48.6	25	9	US-11-348-413-884470	Sequence 884470,

c 973	10.2	48.6	25	9	US-11-348-413-884471	Sequence 884471,
c 974	10.2	48.6	25	9	US-11-348-413-884472	Sequence 884472,
c 975	10.2	48.6	25	9	US-11-348-413-884473	Sequence 884473,
c 976	10.2	48.6	25	9	US-11-348-413-884474	Sequence 884474,
c 977	10.2	48.6	25	9	US-11-348-413-884475	Sequence 884475,
c 978	10.2	48.6	25	9	US-11-348-413-884476	Sequence 884476,
979	10.2	48.6	25	9	US-11-348-413-962646	Sequence 962646,
c 980	10.2	48.6	25	9	US-11-348-413-965663	Sequence 965663,
c 981	10.2	48.6	25	9	US-11-348-413-965664	Sequence 965664,
c 982	10.2	48.6	25	9	US-11-348-413-965665	Sequence 965665,
c 983	10.2	48.6	25	9	US-11-348-413-965666	Sequence 965666,
c 984	10.2	48.6	25	9	US-11-348-413-965667	Sequence 965667,
c 985	10.2	48.6	25	9	US-11-348-413-998053	Sequence 998053,
986	10.2	48.6	25	9	US-11-348-413-1001194	Sequence 1001194,
987	10.2	48.6	25	9	US-11-348-413-1007621	Sequence 1007621,
988	10.2	48.6	25	9	US-11-348-413-1007632	Sequence 1007632,
989	10.2	48.6	25	9	US-11-348-413-1019844	Sequence 1019844,
990	10.2	48.6	25	9	US-11-348-413-1019847	Sequence 1019847,
991	10.2	48.6	25	9	US-11-348-413-1023247	Sequence 1023247,
992	10.2	48.6	25	9	US-11-348-413-1030618	Sequence 1030618,
993	10.2	48.6	25	9	US-11-348-413-1041902	Sequence 1041902,
994	10.2	48.6	25	9	US-11-348-413-1041903	Sequence 1041903,
995	10.2	48.6	25	9	US-11-348-413-1041904	Sequence 1041904,
996	10.2	48.6	25	9	US-11-348-413-1041905	Sequence 1041905,
997	10.2	48.6	25	9	US-11-348-413-1041906	Sequence 1041906,
998	10.2	48.6	25	9	US-11-348-413-1041907	Sequence 1041907,
999	10.2	48.6	25	9	US-11-348-413-1041908	Sequence 1041908,
1000	10.2	48.6	25	9	US-11-348-413-1041909	Sequence 1041909,

#### ALIGNMENTS

#### RESULT 1

US-11-348-413-622759/c

; Sequence 622759, Application US/11348413

; Publication No. US20060160121A1

; GENERAL INFORMATION:

; APPLICANT: Wyeth

; APPLICANT: Mounts, William M

; APPLICANT: Murphy, Ellen

; APPLICANT: Olmsted, Stephen

; TITLE OF INVENTION: PROBE ARRAYS FOR DETECTING MULTIPLE STRAINS OF DIFFERENT SPECIE

; FILE REFERENCE: 031896-084100 (AM 101724)

; CURRENT APPLICATION NUMBER: US/11/348,413

; CURRENT FILING DATE: 2006-02-07

; PRIOR APPLICATION NUMBER: PCT/US05/035471

; PRIOR FILING DATE: 2005-10-05

; PRIOR APPLICATION NUMBER: US 11/243,445

; PRIOR FILING DATE: 2005-10-05

; PRIOR APPLICATION NUMBER: US 60/615,573

; PRIOR FILING DATE: 2004-10-05

; NUMBER OF SEQ ID NOS: 1276209

; SEQ ID NO 622759

; LENGTH: 25

; TYPE: DNA

; ORGANISM: Artificial

; FEATURE:

; OTHER INFORMATION: probe

; FEATURE:

; NAME/KEY: misc\_feature

; LOCATION: (1)..(25)  
; OTHER INFORMATION: SEQ ID NO: 473; WAN01UJDJ\_at; Start 1639; Stop 1663;  
; OTHER INFORMATION: 111111100000000  
US-11-348-413-622759

Query Match 64.8%; Score 13.6; DB 9; Length 25;  
Best Local Similarity 65.0%; Pred. No. 3.9e+03;  
Matches 13; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

Qy 2 GCUGCGUGCCUCCUCACUGG 21  
||:|| :||| | ||:||  
Db 23 GCTGCCTGCCACACCACTGG 4

RESULT 2

US-11-389-343-574  
; Sequence 574, Application US/11389343  
; Publication No. US20060225150A1  
; GENERAL INFORMATION:  
; APPLICANT: HAUGE, Brian M.  
; APPLICANT: WANG, Ming Li  
; APPLICANT: PARSONS, Jeremy David  
; APPLICANT: PARNELL, Laurence David  
; TITLE OF INVENTION: Nucleic Acid Molecules And Other Molecules Associated With  
; TITLE OF INVENTION: Soybean Cyst Nematode Resistance  
; FILE REFERENCE: 16517.329  
; CURRENT APPLICATION NUMBER: US/11/389,343  
; CURRENT FILING DATE: 2006-03-27  
; PRIOR APPLICATION NUMBER: US/09/754,853  
; PRIOR FILING DATE: 2001-01-05  
; PRIOR APPLICATION NUMBER: US 60/174,880  
; PRIOR FILING DATE: 2000-01-07  
; NUMBER OF SEQ ID NOS: 1119  
; SEQ ID NO 574  
; LENGTH: 25  
; TYPE: DNA  
; ORGANISM: Glycine max  
; FEATURE:  
; OTHER INFORMATION: Clone ID: 240017\_region\_G3\_255944\_21\_Reverse\_Primer  
US-11-389-343-574

Query Match 62.9%; Score 13.2; DB 7; Length 25;  
Best Local Similarity 55.6%; Pred. No. 6e+03;  
Matches 10; Conservative 5; Mismatches 3; Indels 0; Gaps 0;

Qy 3 CUGCGUGCCUCCUCACUG 20  
|: | :||: |:||:|  
Db 4 CTTCTTGCCTTCTCACTG 21

RESULT 3

US-11-389-017-574  
; Sequence 574, Application US/11389017  
; Publication No. US20060253919A1  
; GENERAL INFORMATION:  
; APPLICANT: Hauge, Brian M.  
; APPLICANT: Parnell, Laurence D.  
; APPLICANT: Parsons, Jeremy D.  
; APPLICANT: Wang, Ming Li  
; TITLE OF INVENTION: Nucleic Acid Molecules And Other Molecules Associated With  
; TITLE OF INVENTION: Soybean Cyst Nematode Resistance



```

; FILE REFERENCE: 38-10(15810)B
; CURRENT APPLICATION NUMBER: US/11/389,017
; CURRENT FILING DATE: 2006-03-27
; PRIOR APPLICATION NUMBER: US 60/174,880
; PRIOR FILING DATE: 2000-01-07
; NUMBER OF SEQ ID NOS: 1119
; SEQ ID NO 574
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: 240017_region_G3__255944_21_Reverse_Primer
US-11-389-017-574

```

```

Query Match          62.9%; Score 13.2; DB 7; Length 25;
Best Local Similarity 55.6%; Pred. No. 6e+03;
Matches 10; Conservative 5; Mismatches 3; Indels 0; Gaps 0;

```

```

Qy      3 CUGCGUGCCUCCUCACUG 20
        |:|:|:|:|:|:|:|
Db      4 CTTCTTGCTTCTCACTG 21

```

#### RESULT 4

```

US-11-217-529-137062/c
; Sequence 137062, Application US/11217529
; Publication No. US20060099612A1
; GENERAL INFORMATION:
; APPLICANT: SUNTORY LIMITED
; APPLICANT: NAKAO, YOSHIHIRO
; APPLICANT: NAKAMURA, NORIHISA
; APPLICANT: KODAMA, YUKIKO
; APPLICANT: FUJIMURA, TOMOKO
; APPLICANT: ASHIKARI, TOSHIHIKO
; TITLE OF INVENTION: METHODS FOR ANALYZING GENES OF INDUSTRIAL YEASTS
; FILE REFERENCE: S-38-285
; CURRENT APPLICATION NUMBER: US/11/217,529
; CURRENT FILING DATE: 2005-09-02
; PRIOR APPLICATION NUMBER: US 10/932,182
; PRIOR FILING DATE: 2004-09-02
; NUMBER OF SEQ ID NOS: 197023
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 137062
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Saccharomyces pastorianus
US-11-217-529-137062

```

```

Query Match          62.9%; Score 13.2; DB 8; Length 25;
Best Local Similarity 55.6%; Pred. No. 6e+03;
Matches 10; Conservative 5; Mismatches 3; Indels 0; Gaps 0;

```

```

Qy      4 UGCGUGCCUCCUCACUGG 21
        :|:|:|:|:|:|:|:|
Db      23 TGCGTGCCTCATCAATAG 6

```

#### RESULT 5

```

US-10-524-193A-18/c
; Sequence 18, Application US/10524193A
; Publication No. US20060121564A1

```

```
; GENERAL INFORMATION:
; APPLICANT: NAKASHIMA, NOBUTAKA
; APPLICANT: TAMURA, TOMOHIRO
; TITLE OF INVENTION: NOVEL EXPRESSION VECTOR SUITABLE FOR EXPRESSION OF RECOMBINANT
; TITLE OF INVENTION: PROTEIN AT LOW TEMPERATURE
; FILE REFERENCE: 081356-0232
; CURRENT APPLICATION NUMBER: US/10/524,193A
; CURRENT FILING DATE: 2005-02-11
; PRIOR APPLICATION NUMBER: PCT/JP03/10209
; PRIOR FILING DATE: 2003-08-11
; PRIOR APPLICATION NUMBER: JP 2002/235008
; PRIOR FILING DATE: 2002-08-12
; NUMBER OF SEQ ID NOS: 131
; SOFTWARE: PatentIn Ver. 3.3
; SEQ ID NO 18
; LENGTH: 18
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic primer
; OTHER INFORMATION: SHN56
US-10-524-193A-18
```

```
Query Match          61.9%; Score 13; DB 6; Length 18;
Best Local Similarity 76.9%; Pred. No. 7.2e+03;
Matches 10; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      2 GCUGCGUGCCUCC 14
        ||:||||:||||:|
Db      15 GCTGCGTGCCTCC 3
```

#### RESULT 6

```
US-11-217-529-36189
; Sequence 36189, Application US/11217529
; Publication No. US20060099612A1
; GENERAL INFORMATION:
; APPLICANT: SUNTORY LIMITED
; APPLICANT: NAKAO, YOSHIHIRO
; APPLICANT: NAKAMURA, NORIHISA
; APPLICANT: KODAMA, YUKIKO
; APPLICANT: FUJIMURA, TOMOKO
; APPLICANT: ASHIKARI, TOSHIHIKO
; TITLE OF INVENTION: METHODS FOR ANALYZING GENES OF INDUSTRIAL YEASTS
; FILE REFERENCE: S-38-285
; CURRENT APPLICATION NUMBER: US/11/217,529
; CURRENT FILING DATE: 2005-09-02
; PRIOR APPLICATION NUMBER: US 10/932,182
; PRIOR FILING DATE: 2004-09-02
; NUMBER OF SEQ ID NOS: 197023
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 36189
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Saccharomyces pastorianus
US-11-217-529-36189
```

```
Query Match          61.9%; Score 13; DB 8; Length 25;
Best Local Similarity 57.1%; Pred. No. 7.5e+03;
Matches 12; Conservative 4; Mismatches 5; Indels 0; Gaps 0;
```

```

Qy      1 GGCUGCGUGCCUCCUCACUGG 21
        | |:| |:| |:| |:| |:|
Db      5 GACTGTGTGCCTCTGCAATGG 25

```

RESULT 7

```

US-11-217-529-48938
; Sequence 48938, Application US/11217529
; Publication No. US20060099612A1
; GENERAL INFORMATION:
; APPLICANT: SUNTORY LIMITED
; APPLICANT: NAKAO, YOSHIHIRO
; APPLICANT: NAKAMURA, NORIHISA
; APPLICANT: KODAMA, YUKIKO
; APPLICANT: FUJIMURA, TOMOKO
; APPLICANT: ASHIKARI, TOSHIHIKO
; TITLE OF INVENTION: METHODS FOR ANALYZING GENES OF INDUSTRIAL YEASTS
; FILE REFERENCE: S-38-285
; CURRENT APPLICATION NUMBER: US/11/217,529
; CURRENT FILING DATE: 2005-09-02
; PRIOR APPLICATION NUMBER: US 10/932,182
; PRIOR FILING DATE: 2004-09-02
; NUMBER OF SEQ ID NOS: 197023
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 48938
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Saccharomyces pastorianus
US-11-217-529-48938

```

```

Query Match          61.9%; Score 13; DB 8; Length 25;
Best Local Similarity 61.9%; Pred. No. 7.5e+03;
Matches 13; Conservative 3; Mismatches 5; Indels 0; Gaps 0;

```

```

Qy      1 GGCUGCGUGCCUCCUCACUGG 21
        ||| |:| |:| |:| |:|
Db      5 GGCTGAGTACGTCCACACAGG 25

```

RESULT 8

```

US-11-217-529-68255/c
; Sequence 68255, Application US/11217529
; Publication No. US20060099612A1
; GENERAL INFORMATION:
; APPLICANT: SUNTORY LIMITED
; APPLICANT: NAKAO, YOSHIHIRO
; APPLICANT: NAKAMURA, NORIHISA
; APPLICANT: KODAMA, YUKIKO
; APPLICANT: FUJIMURA, TOMOKO
; APPLICANT: ASHIKARI, TOSHIHIKO
; TITLE OF INVENTION: METHODS FOR ANALYZING GENES OF INDUSTRIAL YEASTS
; FILE REFERENCE: S-38-285
; CURRENT APPLICATION NUMBER: US/11/217,529
; CURRENT FILING DATE: 2005-09-02
; PRIOR APPLICATION NUMBER: US 10/932,182
; PRIOR FILING DATE: 2004-09-02
; NUMBER OF SEQ ID NOS: 197023
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 68255
; LENGTH: 25
; TYPE: DNA

```

; ORGANISM: Saccharomyces pastorianus  
US-11-217-529-68255

Query Match 61.0%; Score 12.8; DB 8; Length 25;  
Best Local Similarity 68.8%; Pred. No. 9.2e+03;  
Matches 11; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGCUGCGUGCCUCCUC 16  
|||:|||| |||: |:|  
Db 16 GGCTGCGCGCCTTCTC 1

RESULT 9

US-11-217-529-35669/c  
; Sequence 35669, Application US/11217529  
; Publication No. US20060099612A1  
; GENERAL INFORMATION:  
; APPLICANT: SUNTORY LIMITED  
; APPLICANT: NAKAO, YOSHIHIRO  
; APPLICANT: NAKAMURA, NORIHISA  
; APPLICANT: KODAMA, YUKIKO  
; APPLICANT: FUJIMURA, TOMOKO  
; APPLICANT: ASHIKARI, TOSHIHIKO  
; TITLE OF INVENTION: METHODS FOR ANALYZING GENES OF INDUSTRIAL YEASTS  
; FILE REFERENCE: S-38-285  
; CURRENT APPLICATION NUMBER: US/11/217,529  
; CURRENT FILING DATE: 2005-09-02  
; PRIOR APPLICATION NUMBER: US 10/932,182  
; PRIOR FILING DATE: 2004-09-02  
; NUMBER OF SEQ ID NOS: 197023  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 35669  
; LENGTH: 25  
; TYPE: DNA  
; ORGANISM: Saccharomyces pastorianus  
US-11-217-529-35669

Query Match 60.0%; Score 12.6; DB 8; Length 25;  
Best Local Similarity 57.9%; Pred. No. 1.1e+04;  
Matches 11; Conservative 4; Mismatches 4; Indels 0; Gaps 0;

Qy 1 GGCUGCGUGCCUCCUCACU 19  
|||:|||| :||:||||  
Db 20 GGCTGCGAAGTTCCTCACT 2

RESULT 10

US-11-348-413-648389/c  
; Sequence 648389, Application US/11348413  
; Publication No. US20060160121A1  
; GENERAL INFORMATION:  
; APPLICANT: Wyeth  
; APPLICANT: Mounts, William M  
; APPLICANT: Murphy, Ellen  
; APPLICANT: Olmsted, Stephen  
; TITLE OF INVENTION: PROBE ARRAYS FOR DETECTING MULTIPLE STRAINS OF DIFFERENT SPECIE  
; FILE REFERENCE: 031896-084100 (AM 101724)  
; CURRENT APPLICATION NUMBER: US/11/348,413  
; CURRENT FILING DATE: 2006-02-07  
; PRIOR APPLICATION NUMBER: PCT/US05/035471  
; PRIOR FILING DATE: 2005-10-05

```

; PRIOR APPLICATION NUMBER: US 11/243,445
; PRIOR FILING DATE: 2005-10-05
; PRIOR APPLICATION NUMBER: US 60/615,573
; PRIOR FILING DATE: 2004-10-05
; NUMBER OF SEQ ID NOS: 1276209
; SEQ ID NO 648389
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: probe
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(25)
; OTHER INFORMATION: SEQ ID NO: 1151; WAN01UK37_at; Start 98; Stop 122;
; OTHER INFORMATION: 111111100000000
US-11-348-413-648389

```

```

Query Match          60.0%; Score 12.6; DB 9; Length 25;
Best Local Similarity 52.6%; Pred. No. 1.1e+04;
Matches 10; Conservative 5; Mismatches 4; Indels 0; Gaps 0;

```

```

Qy      3 CUGCGUGCCUCCUCACUGG 21
        |:|:|:|:|:|:|:|
Db      24 CTGCCTGCGTCATCGCTGG 6

```

#### RESULT 11

```

US-10-519-335-18
; Sequence 18, Application US/10519335
; Publication No. US20060099210A1
; GENERAL INFORMATION:
; APPLICANT: Cavarec, Laurent
; APPLICANT: Chumakov, Ilya
; APPLICANT: Destenaves, Benoit
; APPLICANT: Gonthier, Catherine
; APPLICANT: Elias, Isabelle
; TITLE OF INVENTION: NOVEL KCNQ POLYPEPTIDES, MODULATORS THEREOF, AND THEIR USES IN
; TITLE OF INVENTION: TREATMENT OF MENTAL DISORDERS
; FILE REFERENCE: G-194US03PCT
; CURRENT APPLICATION NUMBER: US/10/519,335
; CURRENT FILING DATE: 2004-12-22
; PRIOR APPLICATION NUMBER: US 60/391,359
; PRIOR FILING DATE: 2002-06-25
; NUMBER OF SEQ ID NOS: 47
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 18
; LENGTH: 27
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: oligonucleotide
US-10-519-335-18

```

```

Query Match          60.0%; Score 12.6; DB 6; Length 27;
Best Local Similarity 63.2%; Pred. No. 1.2e+04;
Matches 12; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

```

```

Qy      1 GGCUGCGUGCCUCCUCACU 19
        ||:|||:|:|:|:|:|
Db      5 GGATCCGCGCCGCTCACT 23

```

RESULT 12

US-10-519-335-22

```
; Sequence 22, Application US/10519335
; Publication No. US20060099210A1
; GENERAL INFORMATION:
; APPLICANT: Cavarec, Laurent
; APPLICANT: Chumakov, Ilya
; APPLICANT: Destenaves, Benoit
; APPLICANT: Gonthier, Catherine
; APPLICANT: Elias, Isabelle
; TITLE OF INVENTION: NOVEL KCNQ POLYPEPTIDES, MODULATORS THEREOF, AND THEIR USES IN
; TITLE OF INVENTION: TREATMENT OF MENTAL DISORDERS
; FILE REFERENCE: G-194US03PCT
; CURRENT APPLICATION NUMBER: US/10/519,335
; CURRENT FILING DATE: 2004-12-22
; PRIOR APPLICATION NUMBER: US 60/391,359
; PRIOR FILING DATE: 2002-06-25
; NUMBER OF SEQ ID NOS: 47
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 22
; LENGTH: 27
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: oligonucleotide
US-10-519-335-22
```

```
Query Match          60.0%; Score 12.6; DB 6; Length 27;
Best Local Similarity 63.2%; Pred. No. 1.2e+04;
Matches 12; Conservative 3; Mismatches 4; Indels 0; Gaps 0;
```

```
Qy      1 GGCUGCGUGCCUCCUCACU 19
        || : || ||| ||:||||
Db      5 GGATCCGCGCCGCCTCACT 23
```

RESULT 13

US-10-529-163-14/c

```
; Sequence 14, Application US/10529163
; Publication No. US20060223059A1
; GENERAL INFORMATION:
; APPLICANT: YOUSEF, et al.
; TITLE OF INVENTION: Methods for Detecting Endocrine Cancer
; FILE REFERENCE: 11757.82USWO
; CURRENT APPLICATION NUMBER: US/10/529,163
; CURRENT FILING DATE: 2005-03-24
; PRIOR APPLICATION NUMBER: US 60/414,107
; PRIOR FILING DATE: 2002-09-26
; PRIOR APPLICATION NUMBER: US 60/450,406
; PRIOR FILING DATE: 2003-02-26
; NUMBER OF SEQ ID NOS: 31
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 14
; LENGTH: 16
; TYPE: DNA
; ORGANISM: homo sapiens
US-10-529-163-14
```

```
Query Match          59.0%; Score 12.4; DB 6; Length 16;
```

Best Local Similarity 71.4%; Pred. No. 1.4e+04;  
Matches 10; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GGCUGCGUGCCUCC 14  
|||:| :||:|  
Db 14 GGCTGCTTGCCTCC 1

RESULT 14

US-10-536-369-301

; Sequence 301, Application US/10536369  
; Publication No. US20060235625A1  
; GENERAL INFORMATION:  
; APPLICANT: Fred Hutchinson Cancer Research Center  
; APPLICANT: Parker, Heidi G.  
; APPLICANT: Kim, Lisa V.  
; APPLICANT: Sutter, Nathan B.  
; APPLICANT: Carlson, Scott  
; APPLICANT: Lorentzen, Travis D.  
; APPLICANT: Malek, Tiffany B.  
; APPLICANT: DeFrance, Hawkins B.  
; APPLICANT: Ostrander, Elaine A.  
; APPLICANT: Kruglyak, Leonid  
; TITLE OF INVENTION: METHODS AND MATERIALS FOR CANINE BREED IDENTIFICATION  
; FILE REFERENCE: FHCRI23760  
; CURRENT APPLICATION NUMBER: US/10/536,369  
; CURRENT FILING DATE: 2005-05-25  
; PRIOR APPLICATION NUMBER: US 60/530,464  
; PRIOR FILING DATE: 2003-12-17  
; NUMBER OF SEQ ID NOS: 327  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 301  
; LENGTH: 22  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Oligonucleotide Primer  
US-10-536-369-301

Query Match 59.0%; Score 12.4; DB 6; Length 22;  
Best Local Similarity 64.3%; Pred. No. 1.4e+04;  
Matches 9; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

Qy 7 GUGCCUCCUCACUG 20  
|:| |:|:|:|:  
Db 5 GTGACTCCTCACTG 18

RESULT 15

US-11-217-529-27170

; Sequence 27170, Application US/11217529  
; Publication No. US20060099612A1  
; GENERAL INFORMATION:  
; APPLICANT: SUNTORY LIMITED  
; APPLICANT: NAKAO, YOSHIHIRO  
; APPLICANT: NAKAMURA, NORIHISA  
; APPLICANT: KODAMA, YUKIKO  
; APPLICANT: FUJIMURA, TOMOKO  
; APPLICANT: ASHIKARI, TOSHIHIKO  
; TITLE OF INVENTION: METHODS FOR ANALYZING GENES OF INDUSTRIAL YEASTS  
; FILE REFERENCE: S-38-285

11  
; CURRENT APPLICATION NUMBER: US/11/217,529  
; CURRENT FILING DATE: 2005-09-02  
; PRIOR APPLICATION NUMBER: US 10/932,182  
; PRIOR FILING DATE: 2004-09-02  
; NUMBER OF SEQ ID NOS: 197023  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 27170  
; LENGTH: 25  
; TYPE: DNA  
; ORGANISM: Saccharomyces pastorianus  
US-11-217-529-27170

Query Match 59.0%; Score 12.4; DB 8; Length 25;  
Best Local Similarity 64.3%; Pred. No. 1.4e+04;  
Matches 9; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

Qy 8 UGCCUCCUCACUGG 21  
:|||||:| :|||:|  
Db 4 TGCCTCGTCACTGG 17

RESULT 16

US-11-217-529-163600/c  
; Sequence 163600, Application US/11217529  
; Publication No. US20060099612A1  
; GENERAL INFORMATION:  
; APPLICANT: SUNTORY LIMITED  
; APPLICANT: NAKAO, YOSHIHIRO  
; APPLICANT: NAKAMURA, NORIHISA  
; APPLICANT: KODAMA, YUKIKO  
; APPLICANT: FUJIMURA, TOMOKO  
; APPLICANT: ASHIKARI, TOSHIHIKO  
; TITLE OF INVENTION: METHODS FOR ANALYZING GENES OF INDUSTRIAL YEASTS  
; FILE REFERENCE: S-38-285  
; CURRENT APPLICATION NUMBER: US/11/217,529  
; CURRENT FILING DATE: 2005-09-02  
; PRIOR APPLICATION NUMBER: US 10/932,182  
; PRIOR FILING DATE: 2004-09-02  
; NUMBER OF SEQ ID NOS: 197023  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 163600  
; LENGTH: 25  
; TYPE: DNA  
; ORGANISM: Saccharomyces pastorianus  
US-11-217-529-163600

Query Match 58.1%; Score 12.2; DB 8; Length 25;  
Best Local Similarity 52.9%; Pred. No. 1.8e+04;  
Matches 9; Conservative 5; Mismatches 3; Indels 0; Gaps 0;

Qy 4 UGCGUGCCUCCUCACUG 20  
:| |:|||:| :|||  
Db 21 TGGGTGCCTCTTGACTG 5

RESULT 17

US-11-348-413-368971  
; Sequence 368971, Application US/11348413  
; Publication No. US20060160121A1  
; GENERAL INFORMATION:  
; APPLICANT: Wyeth



```

; APPLICANT: Mounts, William M
; APPLICANT: Murphy, Ellen
; APPLICANT: Olmsted, Stephen
; TITLE OF INVENTION: PROBE ARRAYS FOR DETECTING MULTIPLE STRAINS OF DIFFERENT SPECIE
; FILE REFERENCE: 031896-084100 (AM 101724)
; CURRENT APPLICATION NUMBER: US/11/348,413
; CURRENT FILING DATE: 2006-02-07
; PRIOR APPLICATION NUMBER: PCT/US05/035471
; PRIOR FILING DATE: 2005-10-05
; PRIOR APPLICATION NUMBER: US 11/243,445
; PRIOR FILING DATE: 2005-10-05
; PRIOR APPLICATION NUMBER: US 60/615,573
; PRIOR FILING DATE: 2004-10-05
; NUMBER OF SEQ ID NOS: 1276209
; SEQ ID NO 368971
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: probe
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(25)
; OTHER INFORMATION: SEQ ID NO: 11334; WAN01UH2H; Start 66; Stop 90;
; OTHER INFORMATION: 000000000011111
US-11-348-413-368971

```

```

Query Match          58.1%; Score 12.2; DB 9; Length 25;
Best Local Similarity 58.8%; Pred. No. 1.8e+04;
Matches 10; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

```

```

Qy      1 GGCUGCGUGCCUCCUCA 17
        |||: |:|||:| :||
Db      9 GGCTAAGTGCCTCATCA 25

```

#### RESULT 18

```

US-11-348-413-368972
; Sequence 368972, Application US/11348413
; Publication No. US20060160121A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; APPLICANT: Murphy, Ellen
; APPLICANT: Olmsted, Stephen
; TITLE OF INVENTION: PROBE ARRAYS FOR DETECTING MULTIPLE STRAINS OF DIFFERENT SPECIE
; FILE REFERENCE: 031896-084100 (AM 101724)
; CURRENT APPLICATION NUMBER: US/11/348,413
; CURRENT FILING DATE: 2006-02-07
; PRIOR APPLICATION NUMBER: PCT/US05/035471
; PRIOR FILING DATE: 2005-10-05
; PRIOR APPLICATION NUMBER: US 11/243,445
; PRIOR FILING DATE: 2005-10-05
; PRIOR APPLICATION NUMBER: US 60/615,573
; PRIOR FILING DATE: 2004-10-05
; NUMBER OF SEQ ID NOS: 1276209
; SEQ ID NO 368972
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:

```

; OTHER INFORMATION: probe  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: (1)..(25)  
; OTHER INFORMATION: SEQ ID NO: 11334; WAN01UH2H; Start 67; Stop 91;  
; OTHER INFORMATION: 000000000011111  
US-11-348-413-368972

Query Match 58.1%; Score 12.2; DB 9; Length 25;  
Best Local Similarity 58.8%; Pred. No. 1.8e+04;  
Matches 10; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

Qy 1 GGCUGCGUGCCUCCUCA 17  
|||: |:|||:| :||  
Db 8 GGCTAAGTGCCTCATCA 24

RESULT 19

US-11-348-413-368973  
; Sequence 368973, Application US/11348413  
; Publication No. US20060160121A1  
; GENERAL INFORMATION:  
; APPLICANT: Wyeth  
; APPLICANT: Mounts, William M  
; APPLICANT: Murphy, Ellen  
; APPLICANT: Olmsted, Stephen  
; TITLE OF INVENTION: PROBE ARRAYS FOR DETECTING MULTIPLE STRAINS OF DIFFERENT SPECIE  
; FILE REFERENCE: 031896-084100 (AM 101724)  
; CURRENT APPLICATION NUMBER: US/11/348,413  
; CURRENT FILING DATE: 2006-02-07  
; PRIOR APPLICATION NUMBER: PCT/US05/035471  
; PRIOR FILING DATE: 2005-10-05  
; PRIOR APPLICATION NUMBER: US 11/243,445  
; PRIOR FILING DATE: 2005-10-05  
; PRIOR APPLICATION NUMBER: US 60/615,573  
; PRIOR FILING DATE: 2004-10-05  
; NUMBER OF SEQ ID NOS: 1276209  
; SEQ ID NO 368973  
; LENGTH: 25  
; TYPE: DNA  
; ORGANISM: Artificial  
; FEATURE:  
; OTHER INFORMATION: probe  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: (1)..(25)  
; OTHER INFORMATION: SEQ ID NO: 11334; WAN01UH2H; Start 68; Stop 92;  
; OTHER INFORMATION: 000000000011111  
US-11-348-413-368973

Query Match 58.1%; Score 12.2; DB 9; Length 25;  
Best Local Similarity 58.8%; Pred. No. 1.8e+04;  
Matches 10; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

Qy 1 GGCUGCGUGCCUCCUCA 17  
|||: |:|||:| :||  
Db 7 GGCTAAGTGCCTCATCA 23

RESULT 20

US-11-348-413-368974

```

; Sequence 368974, Application US/11348413
; Publication No. US20060160121A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; APPLICANT: Murphy, Ellen
; APPLICANT: Olmsted, Stephen
; TITLE OF INVENTION: PROBE ARRAYS FOR DETECTING MULTIPLE STRAINS OF DIFFERENT SPECIE
; FILE REFERENCE: 031896-084100 (AM 101724)
; CURRENT APPLICATION NUMBER: US/11/348,413
; CURRENT FILING DATE: 2006-02-07
; PRIOR APPLICATION NUMBER: PCT/US05/035471
; PRIOR FILING DATE: 2005-10-05
; PRIOR APPLICATION NUMBER: US 11/243,445
; PRIOR FILING DATE: 2005-10-05
; PRIOR APPLICATION NUMBER: US 60/615,573
; PRIOR FILING DATE: 2004-10-05
; NUMBER OF SEQ ID NOS: 1276209
; SEQ ID NO 368974
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: probe
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(25)
; OTHER INFORMATION: SEQ ID NO: 11334; WAN01UH2H; Start 69; Stop 93;
; OTHER INFORMATION: 000000000011111
US-11-348-413-368974

```

```

Query Match          58.1%; Score 12.2; DB 9; Length 25;
Best Local Similarity 58.8%; Pred. No. 1.8e+04;
Matches 10; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

```

```

Qy      1 GGCUGCGUGCCUCCUCA 17
        |||: |:|||:| :||
Db      6 GGCTAAGTGCCTCATCA 22

```

#### RESULT 21

```

US-11-348-413-368975
; Sequence 368975, Application US/11348413
; Publication No. US20060160121A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; APPLICANT: Murphy, Ellen
; APPLICANT: Olmsted, Stephen
; TITLE OF INVENTION: PROBE ARRAYS FOR DETECTING MULTIPLE STRAINS OF DIFFERENT SPECIE
; FILE REFERENCE: 031896-084100 (AM 101724)
; CURRENT APPLICATION NUMBER: US/11/348,413
; CURRENT FILING DATE: 2006-02-07
; PRIOR APPLICATION NUMBER: PCT/US05/035471
; PRIOR FILING DATE: 2005-10-05
; PRIOR APPLICATION NUMBER: US 11/243,445
; PRIOR FILING DATE: 2005-10-05
; PRIOR APPLICATION NUMBER: US 60/615,573
; PRIOR FILING DATE: 2004-10-05
; NUMBER OF SEQ ID NOS: 1276209
; SEQ ID NO 368975

```

```

; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: probe
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(25)
; OTHER INFORMATION: SEQ ID NO: 11334; WAN01UH2H; Start 70; Stop 94;
; OTHER INFORMATION: 000000000011111
US-11-348-413-368975

```

```

Query Match          58.1%; Score 12.2; DB 9; Length 25;
Best Local Similarity 58.8%; Pred. No. 1.8e+04;
Matches 10; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

```

```

Qy      1 GGCUGCGUGCCUCCUCA 17
        |||: |:|||:| :||
Db      5 GGCTAAGTGCCTCATCA 21

```

#### RESULT 22

```

US-11-348-413-387703/c
; Sequence 387703, Application US/11348413
; Publication No. US20060160121A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; APPLICANT: Murphy, Ellen
; APPLICANT: Olmsted, Stephen
; TITLE OF INVENTION: PROBE ARRAYS FOR DETECTING MULTIPLE STRAINS OF DIFFERENT SPECIE
; FILE REFERENCE: 031896-084100 (AM 101724)
; CURRENT APPLICATION NUMBER: US/11/348,413
; CURRENT FILING DATE: 2006-02-07
; PRIOR APPLICATION NUMBER: PCT/US05/035471
; PRIOR FILING DATE: 2005-10-05
; PRIOR APPLICATION NUMBER: US 11/243,445
; PRIOR FILING DATE: 2005-10-05
; PRIOR APPLICATION NUMBER: US 60/615,573
; PRIOR FILING DATE: 2004-10-05
; NUMBER OF SEQ ID NOS: 1276209
; SEQ ID NO 387703
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: probe
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(25)
; OTHER INFORMATION: SEQ ID NO: 11834; WAN01UNZ9; Start 16; Stop 40;
; OTHER INFORMATION: 000000000001000
US-11-348-413-387703

```

```

Query Match          58.1%; Score 12.2; DB 9; Length 25;
Best Local Similarity 52.9%; Pred. No. 1.8e+04;
Matches 9; Conservative 5; Mismatches 3; Indels 0; Gaps 0;

```

```

Qy      4 UGCGUGCCUCCUCACUG 20
        : ||: | :||:||||:|
Db      25 TTCGTTCTTCTCACTG 9

```

RESULT 23

US-11-348-413-387704/c  
 ; Sequence 387704, Application US/11348413  
 ; Publication No. US20060160121A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Wyeth  
 ; APPLICANT: Mounts, William M  
 ; APPLICANT: Murphy, Ellen  
 ; APPLICANT: Olmsted, Stephen  
 ; TITLE OF INVENTION: PROBE ARRAYS FOR DETECTING MULTIPLE STRAINS OF DIFFERENT SPECIE  
 ; FILE REFERENCE: 031896-084100 (AM 101724)  
 ; CURRENT APPLICATION NUMBER: US/11/348,413  
 ; CURRENT FILING DATE: 2006-02-07  
 ; PRIOR APPLICATION NUMBER: PCT/US05/035471  
 ; PRIOR FILING DATE: 2005-10-05  
 ; PRIOR APPLICATION NUMBER: US 11/243,445  
 ; PRIOR FILING DATE: 2005-10-05  
 ; PRIOR APPLICATION NUMBER: US 60/615,573  
 ; PRIOR FILING DATE: 2004-10-05  
 ; NUMBER OF SEQ ID NOS: 1276209  
 ; SEQ ID NO 387704  
 ; LENGTH: 25  
 ; TYPE: DNA  
 ; ORGANISM: Artificial  
 ; FEATURE:  
 ; OTHER INFORMATION: probe  
 ; FEATURE:  
 ; NAME/KEY: misc\_feature  
 ; LOCATION: (1)..(25)  
 ; OTHER INFORMATION: SEQ ID NO: 11834; WAN01UNZ9; Start 17; Stop 41;  
 ; OTHER INFORMATION: 000000000001000  
 US-11-348-413-387704

Query Match 58.1%; Score 12.2; DB 9; Length 25;  
 Best Local Similarity 52.9%; Pred. No. 1.8e+04;  
 Matches 9; Conservative 5; Mismatches 3; Indels 0; Gaps 0;

Qy 4 UGCGUGCCUCCUCACUG 20  
 : ||: | :||:||||:  
 Db 24 TTCGTTCTTCCTCACTG 8

RESULT 24

US-11-348-413-387705/c  
 ; Sequence 387705, Application US/11348413  
 ; Publication No. US20060160121A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Wyeth  
 ; APPLICANT: Mounts, William M  
 ; APPLICANT: Murphy, Ellen  
 ; APPLICANT: Olmsted, Stephen  
 ; TITLE OF INVENTION: PROBE ARRAYS FOR DETECTING MULTIPLE STRAINS OF DIFFERENT SPECIE  
 ; FILE REFERENCE: 031896-084100 (AM 101724)  
 ; CURRENT APPLICATION NUMBER: US/11/348,413  
 ; CURRENT FILING DATE: 2006-02-07  
 ; PRIOR APPLICATION NUMBER: PCT/US05/035471  
 ; PRIOR FILING DATE: 2005-10-05  
 ; PRIOR APPLICATION NUMBER: US 11/243,445  
 ; PRIOR FILING DATE: 2005-10-05

```

; PRIOR APPLICATION NUMBER: US 60/615,573
; PRIOR FILING DATE: 2004-10-05
; NUMBER OF SEQ ID NOS: 1276209
; SEQ ID NO 387705
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: probe
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(25)
; OTHER INFORMATION: SEQ ID NO: 11834; WAN01UNZ9; Start 18; Stop 42;
; OTHER INFORMATION: 000000000001000
US-11-348-413-387705

```

```

Query Match          58.1%; Score 12.2; DB 9; Length 25;
Best Local Similarity 52.9%; Pred. No. 1.8e+04;
Matches      9; Conservative      5; Mismatches      3; Indels      0; Gaps      0;

```

```

Qy      4 UGCGUGCCUCCUCACUG 20
        : ||: | :||:||||:|
Db      23 TTCGTTCTTCCTCACTG 7

```

#### RESULT 25

```

US-11-348-413-387706/c
; Sequence 387706, Application US/11348413
; Publication No. US20060160121A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; APPLICANT: Murphy, Ellen
; APPLICANT: Olmsted, Stephen
; TITLE OF INVENTION: PROBE ARRAYS FOR DETECTING MULTIPLE STRAINS OF DIFFERENT SPECIE
; FILE REFERENCE: 031896-084100 (AM 101724)
; CURRENT APPLICATION NUMBER: US/11/348,413
; CURRENT FILING DATE: 2006-02-07
; PRIOR APPLICATION NUMBER: PCT/US05/035471
; PRIOR FILING DATE: 2005-10-05
; PRIOR APPLICATION NUMBER: US 11/243,445
; PRIOR FILING DATE: 2005-10-05
; PRIOR APPLICATION NUMBER: US 60/615,573
; PRIOR FILING DATE: 2004-10-05
; NUMBER OF SEQ ID NOS: 1276209
; SEQ ID NO 387706
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: probe
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(25)
; OTHER INFORMATION: SEQ ID NO: 11834; WAN01UNZ9; Start 20; Stop 44;
; OTHER INFORMATION: 000000000001000
US-11-348-413-387706

```

```

Query Match          58.1%; Score 12.2; DB 9; Length 25;
Best Local Similarity 52.9%; Pred. No. 1.8e+04;
Matches      9; Conservative      5; Mismatches      3; Indels      0; Gaps      0;

```

Qy 4 UGCGUGCCUCCUCACUG 20  
: ||: | :||:||||:  
Db 21 TTCGTTCTTCTCACTG 5

RESULT 26

US-11-348-413-387707/c  
; Sequence 387707, Application US/11348413  
; Publication No. US20060160121A1  
; GENERAL INFORMATION:  
; APPLICANT: Wyeth  
; APPLICANT: Mounts, William M  
; APPLICANT: Murphy, Ellen  
; APPLICANT: Olmsted, Stephen  
; TITLE OF INVENTION: PROBE ARRAYS FOR DETECTING MULTIPLE STRAINS OF DIFFERENT SPECIE  
; FILE REFERENCE: 031896-084100 (AM 101724)  
; CURRENT APPLICATION NUMBER: US/11/348,413  
; CURRENT FILING DATE: 2006-02-07  
; PRIOR APPLICATION NUMBER: PCT/US05/035471  
; PRIOR FILING DATE: 2005-10-05  
; PRIOR APPLICATION NUMBER: US 11/243,445  
; PRIOR FILING DATE: 2005-10-05  
; PRIOR APPLICATION NUMBER: US 60/615,573  
; PRIOR FILING DATE: 2004-10-05  
; NUMBER OF SEQ ID NOS: 1276209  
; SEQ ID NO 387707  
; LENGTH: 25  
; TYPE: DNA  
; ORGANISM: Artificial  
; FEATURE:  
; OTHER INFORMATION: probe  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: (1)..(25)  
; OTHER INFORMATION: SEQ ID NO: 11834; WAN01UNZ9; Start 21; Stop 45;  
; OTHER INFORMATION: 000000000001000  
US-11-348-413-387707

Query Match 58.1%; Score 12.2; DB 9; Length 25;  
Best Local Similarity 52.9%; Pred. No. 1.8e+04;  
Matches 9; Conservative 5; Mismatches 3; Indels 0; Gaps 0;

Qy 4 UGCGUGCCUCCUCACUG 20  
: ||: | :||:||||:  
Db 20 TTCGTTCTTCTCACTG 4

RESULT 27

US-11-348-413-387708/c  
; Sequence 387708, Application US/11348413  
; Publication No. US20060160121A1  
; GENERAL INFORMATION:  
; APPLICANT: Wyeth  
; APPLICANT: Mounts, William M  
; APPLICANT: Murphy, Ellen  
; APPLICANT: Olmsted, Stephen  
; TITLE OF INVENTION: PROBE ARRAYS FOR DETECTING MULTIPLE STRAINS OF DIFFERENT SPECIE  
; FILE REFERENCE: 031896-084100 (AM 101724)  
; CURRENT APPLICATION NUMBER: US/11/348,413  
; CURRENT FILING DATE: 2006-02-07

```

; PRIOR APPLICATION NUMBER: PCT/US05/035471
; PRIOR FILING DATE: 2005-10-05
; PRIOR APPLICATION NUMBER: US 11/243,445
; PRIOR FILING DATE: 2005-10-05
; PRIOR APPLICATION NUMBER: US 60/615,573
; PRIOR FILING DATE: 2004-10-05
; NUMBER OF SEQ ID NOS: 1276209
; SEQ ID NO 387708
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: probe
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(25)
; OTHER INFORMATION: SEQ ID NO: 11834; WAN01UNZ9; Start 22; Stop 46;
; OTHER INFORMATION: 000000000001000
US-11-348-413-387708

```

```

Query Match          58.1%; Score 12.2; DB 9; Length 25;
Best Local Similarity 52.9%; Pred. No. 1.8e+04;
Matches      9; Conservative      5; Mismatches      3; Indels      0; Gaps      0;

```

```

Qy      4 UGCGUGCCUCCUCACUG 20
        : ||: | :||:| |:|
Db      19 TTCGTTCTTCCTCACTG 3

```

#### RESULT 28

```

US-11-348-413-387709/c
; Sequence 387709, Application US/11348413
; Publication No. US20060160121A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; APPLICANT: Murphy, Ellen
; APPLICANT: Olmsted, Stephen
; TITLE OF INVENTION: PROBE ARRAYS FOR DETECTING MULTIPLE STRAINS OF DIFFERENT SPECIE
; FILE REFERENCE: 031896-084100 (AM 101724)
; CURRENT APPLICATION NUMBER: US/11/348,413
; CURRENT FILING DATE: 2006-02-07
; PRIOR APPLICATION NUMBER: PCT/US05/035471
; PRIOR FILING DATE: 2005-10-05
; PRIOR APPLICATION NUMBER: US 11/243,445
; PRIOR FILING DATE: 2005-10-05
; PRIOR APPLICATION NUMBER: US 60/615,573
; PRIOR FILING DATE: 2004-10-05
; NUMBER OF SEQ ID NOS: 1276209
; SEQ ID NO 387709
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: probe
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(25)
; OTHER INFORMATION: SEQ ID NO: 11834; WAN01UNZ9; Start 24; Stop 48;
; OTHER INFORMATION: 000000000001000
US-11-348-413-387709

```



Query Match 58.1%; Score 12.2; DB 9; Length 25;  
Best Local Similarity 52.9%; Pred. No. 1.8e+04;  
Matches 9; Conservative 5; Mismatches 3; Indels 0; Gaps 0;

Qy 4 UGCGUGCCUCCUCACUG 20  
: ||: | :||:||||:  
Db 17 TTCGTTCTTCCTCACTG 1

RESULT 29

US-11-348-413-450436/c  
; Sequence 450436, Application US/11348413  
; Publication No. US20060160121A1  
; GENERAL INFORMATION:  
; APPLICANT: Wyeth  
; APPLICANT: Mounts, William M  
; APPLICANT: Murphy, Ellen  
; APPLICANT: Olmsted, Stephen  
; TITLE OF INVENTION: PROBE ARRAYS FOR DETECTING MULTIPLE STRAINS OF DIFFERENT SPECIE  
; FILE REFERENCE: 031896-084100 (AM 101724)  
; CURRENT APPLICATION NUMBER: US/11/348,413  
; CURRENT FILING DATE: 2006-02-07  
; PRIOR APPLICATION NUMBER: PCT/US05/035471  
; PRIOR FILING DATE: 2005-10-05  
; PRIOR APPLICATION NUMBER: US 11/243,445  
; PRIOR FILING DATE: 2005-10-05  
; PRIOR APPLICATION NUMBER: US 60/615,573  
; PRIOR FILING DATE: 2004-10-05  
; NUMBER OF SEQ ID NOS: 1276209  
; SEQ ID NO 450436  
; LENGTH: 25  
; TYPE: DNA  
; ORGANISM: Artificial  
; FEATURE:  
; OTHER INFORMATION: probe  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: (1)..(25)  
; OTHER INFORMATION: SEQ ID NO: 13530; WAN01UPK7; Start 139; Stop 163;  
; OTHER INFORMATION: 000000000011011  
US-11-348-413-450436

Query Match 58.1%; Score 12.2; DB 9; Length 25;  
Best Local Similarity 52.9%; Pred. No. 1.8e+04;  
Matches 9; Conservative 5; Mismatches 3; Indels 0; Gaps 0;

Qy 3 CUGCGUGCCUCCUCACU 19  
|:|| :| |: |:|:  
Db 25 CTGCTTGCTCTACTCACT 9

RESULT 30

US-11-348-413-450437/c  
; Sequence 450437, Application US/11348413  
; Publication No. US20060160121A1  
; GENERAL INFORMATION:  
; APPLICANT: Wyeth  
; APPLICANT: Mounts, William M  
; APPLICANT: Murphy, Ellen  
; APPLICANT: Olmsted, Stephen

```

; TITLE OF INVENTION: PROBE ARRAYS FOR DETECTING MULTIPLE STRAINS OF DIFFERENT SPECIE
; FILE REFERENCE: 031896-084100 (AM 101724)
; CURRENT APPLICATION NUMBER: US/11/348,413
; CURRENT FILING DATE: 2006-02-07
; PRIOR APPLICATION NUMBER: PCT/US05/035471
; PRIOR FILING DATE: 2005-10-05
; PRIOR APPLICATION NUMBER: US 11/243,445
; PRIOR FILING DATE: 2005-10-05
; PRIOR APPLICATION NUMBER: US 60/615,573
; PRIOR FILING DATE: 2004-10-05
; NUMBER OF SEQ ID NOS: 1276209
; SEQ ID NO 450437
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: probe
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(25)
; OTHER INFORMATION: SEQ ID NO: 13530; WAN01UPK7; Start 140; Stop 164;
; OTHER INFORMATION: 000000000011011
US-11-348-413-450437

```

```

Query Match          58.1%; Score 12.2; DB 9; Length 25;
Best Local Similarity 52.9%; Pred. No. 1.8e+04;
Matches      9; Conservative      5; Mismatches      3; Indels      0; Gaps      0;

```

```

Qy      3 CUGCGUGCCUCCUCACU 19
        |:|| :| |: |:|:|:
Db      24 CTGCTTGTCTACTCACT 8

```

# RESULT 31

```

US-11-348-413-450438/c
; Sequence 450438, Application US/11348413
; Publication No. US20060160121A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; APPLICANT: Murphy, Ellen
; APPLICANT: Olmsted, Stephen
; TITLE OF INVENTION: PROBE ARRAYS FOR DETECTING MULTIPLE STRAINS OF DIFFERENT SPECIE
; FILE REFERENCE: 031896-084100 (AM 101724)
; CURRENT APPLICATION NUMBER: US/11/348,413
; CURRENT FILING DATE: 2006-02-07
; PRIOR APPLICATION NUMBER: PCT/US05/035471
; PRIOR FILING DATE: 2005-10-05
; PRIOR APPLICATION NUMBER: US 11/243,445
; PRIOR FILING DATE: 2005-10-05
; PRIOR APPLICATION NUMBER: US 60/615,573
; PRIOR FILING DATE: 2004-10-05
; NUMBER OF SEQ ID NOS: 1276209
; SEQ ID NO 450438
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: probe
; FEATURE:
; NAME/KEY: misc_feature

```

; LOCATION: (1)..(25)  
; OTHER INFORMATION: SEQ ID NO: 13530; WAN01UPK7; Start 141; Stop 165;  
; OTHER INFORMATION: 000000000011011  
US-11-348-413-450438

Query Match 58.1%; Score 12.2; DB 9; Length 25;  
Best Local Similarity 52.9%; Pred. No. 1.8e+04;  
Matches 9; Conservative 5; Mismatches 3; Indels 0; Gaps 0;

Qy 3 CUGCGUGCCUCCUCACU 19  
|:|: |: |: |:|:|:  
Db 23 CTGCTTGTCTACTCACT 7

RESULT 32

US-11-348-413-450439/c  
; Sequence 450439, Application US/11348413  
; Publication No. US20060160121A1  
; GENERAL INFORMATION:  
; APPLICANT: Wyeth  
; APPLICANT: Mounts, William M  
; APPLICANT: Murphy, Ellen  
; APPLICANT: Olmsted, Stephen  
; TITLE OF INVENTION: PROBE ARRAYS FOR DETECTING MULTIPLE STRAINS OF DIFFERENT SPECIE  
; FILE REFERENCE: 031896-084100 (AM 101724)  
; CURRENT APPLICATION NUMBER: US/11/348,413  
; CURRENT FILING DATE: 2006-02-07  
; PRIOR APPLICATION NUMBER: PCT/US05/035471  
; PRIOR FILING DATE: 2005-10-05  
; PRIOR APPLICATION NUMBER: US 11/243,445  
; PRIOR FILING DATE: 2005-10-05  
; PRIOR APPLICATION NUMBER: US 60/615,573  
; PRIOR FILING DATE: 2004-10-05  
; NUMBER OF SEQ ID NOS: 1276209  
; SEQ ID NO 450439  
; LENGTH: 25  
; TYPE: DNA  
; ORGANISM: Artificial  
; FEATURE:  
; OTHER INFORMATION: probe  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: (1)..(25)  
; OTHER INFORMATION: SEQ ID NO: 13530; WAN01UPK7; Start 142; Stop 166;  
; OTHER INFORMATION: 000000000011011  
US-11-348-413-450439

Query Match 58.1%; Score 12.2; DB 9; Length 25;  
Best Local Similarity 52.9%; Pred. No. 1.8e+04;  
Matches 9; Conservative 5; Mismatches 3; Indels 0; Gaps 0;

Qy 3 CUGCGUGCCUCCUCACU 19  
|:|: |: |: |:|:|:  
Db 22 CTGCTTGTCTACTCACT 6

RESULT 33

US-11-348-413-450440/c  
; Sequence 450440, Application US/11348413  
; Publication No. US20060160121A1  
; GENERAL INFORMATION:

```

; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; APPLICANT: Murphy, Ellen
; APPLICANT: Olmsted, Stephen
; TITLE OF INVENTION: PROBE ARRAYS FOR DETECTING MULTIPLE STRAINS OF DIFFERENT SPECIE
; FILE REFERENCE: 031896-084100 (AM 101724)
; CURRENT APPLICATION NUMBER: US/11/348,413
; CURRENT FILING DATE: 2006-02-07
; PRIOR APPLICATION NUMBER: PCT/US05/035471
; PRIOR FILING DATE: 2005-10-05
; PRIOR APPLICATION NUMBER: US 11/243,445
; PRIOR FILING DATE: 2005-10-05
; PRIOR APPLICATION NUMBER: US 60/615,573
; PRIOR FILING DATE: 2004-10-05
; NUMBER OF SEQ ID NOS: 1276209
; SEQ ID NO 450440
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: probe
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(25)
; OTHER INFORMATION: SEQ ID NO: 13530; WAN01UPK7; Start 143; Stop 167;
; OTHER INFORMATION: 000000000011011
US-11-348-413-450440

```

```

Query Match          58.1%; Score 12.2; DB 9; Length 25;
Best Local Similarity 52.9%; Pred. No. 1.8e+04;
Matches      9; Conservative      5; Mismatches      3; Indels      0; Gaps      0;

```

```

Qy      3 CUGCGUGCCUCCUCACU 19
        |:|| :| |: |:|:|:
Db      21 CTGCTTGTCTACTCACT 5

```

```

RESULT 34
US-11-348-413-450441/c
; Sequence 450441, Application US/11348413
; Publication No. US20060160121A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; APPLICANT: Murphy, Ellen
; APPLICANT: Olmsted, Stephen
; TITLE OF INVENTION: PROBE ARRAYS FOR DETECTING MULTIPLE STRAINS OF DIFFERENT SPECIE
; FILE REFERENCE: 031896-084100 (AM 101724)
; CURRENT APPLICATION NUMBER: US/11/348,413
; CURRENT FILING DATE: 2006-02-07
; PRIOR APPLICATION NUMBER: PCT/US05/035471
; PRIOR FILING DATE: 2005-10-05
; PRIOR APPLICATION NUMBER: US 11/243,445
; PRIOR FILING DATE: 2005-10-05
; PRIOR APPLICATION NUMBER: US 60/615,573
; PRIOR FILING DATE: 2004-10-05
; NUMBER OF SEQ ID NOS: 1276209
; SEQ ID NO 450441
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial

```

```

; FEATURE:
; OTHER INFORMATION: probe
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(25)
; OTHER INFORMATION: SEQ ID NO: 13530; WAN01UPK7; Start 144; Stop 168;
; OTHER INFORMATION: 000000000011011
US-11-348-413-450441

```

```

Query Match          58.1%; Score 12.2; DB 9; Length 25;
Best Local Similarity 52.9%; Pred. No. 1.8e+04;
Matches      9; Conservative      5; Mismatches      3; Indels      0; Gaps      0;

```

```

Qy      3 CUGCGUGCCUCCUCACU 19
        |:|: |: |: |:|:|:
Db      20 CTGCTTGTCTACTCACT 4

```

#### RESULT 35

```

US-11-348-413-450442/c
; Sequence 450442, Application US/11348413
; Publication No. US20060160121A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; APPLICANT: Murphy, Ellen
; APPLICANT: Olmsted, Stephen
; TITLE OF INVENTION: PROBE ARRAYS FOR DETECTING MULTIPLE STRAINS OF DIFFERENT SPECIE
; FILE REFERENCE: 031896-084100 (AM 101724)
; CURRENT APPLICATION NUMBER: US/11/348,413
; CURRENT FILING DATE: 2006-02-07
; PRIOR APPLICATION NUMBER: PCT/US05/035471
; PRIOR FILING DATE: 2005-10-05
; PRIOR APPLICATION NUMBER: US 11/243,445
; PRIOR FILING DATE: 2005-10-05
; PRIOR APPLICATION NUMBER: US 60/615,573
; PRIOR FILING DATE: 2004-10-05
; NUMBER OF SEQ ID NOS: 1276209
; SEQ ID NO 450442
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: probe
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(25)
; OTHER INFORMATION: SEQ ID NO: 13530; WAN01UPK7; Start 145; Stop 169;
; OTHER INFORMATION: 000000000011011
US-11-348-413-450442

```

```

Query Match          58.1%; Score 12.2; DB 9; Length 25;
Best Local Similarity 52.9%; Pred. No. 1.8e+04;
Matches      9; Conservative      5; Mismatches      3; Indels      0; Gaps      0;

```

```

Qy      3 CUGCGUGCCUCCUCACU 19
        |:|: |: |: |:|:|:
Db      19 CTGCTTGTCTACTCACT 3

```

#### RESULT 36

US-11-348-413-450443/c  
; Sequence 450443, Application US/11348413  
; Publication No. US20060160121A1  
; GENERAL INFORMATION:  
; APPLICANT: Wyeth  
; APPLICANT: Mounts, William M  
; APPLICANT: Murphy, Ellen  
; APPLICANT: Olmsted, Stephen  
; TITLE OF INVENTION: PROBE ARRAYS FOR DETECTING MULTIPLE STRAINS OF DIFFERENT SPECIE  
; FILE REFERENCE: 031896-084100 (AM 101724)  
; CURRENT APPLICATION NUMBER: US/11/348,413  
; CURRENT FILING DATE: 2006-02-07  
; PRIOR APPLICATION NUMBER: PCT/US05/035471  
; PRIOR FILING DATE: 2005-10-05  
; PRIOR APPLICATION NUMBER: US 11/243,445  
; PRIOR FILING DATE: 2005-10-05  
; PRIOR APPLICATION NUMBER: US 60/615,573  
; PRIOR FILING DATE: 2004-10-05  
; NUMBER OF SEQ ID NOS: 1276209  
; SEQ ID NO 450443  
; LENGTH: 25  
; TYPE: DNA  
; ORGANISM: Artificial  
; FEATURE:  
; OTHER INFORMATION: probe  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: (1)..(25)  
; OTHER INFORMATION: SEQ ID NO: 13530; WAN01UPK7; Start 146; Stop 170;  
; OTHER INFORMATION: 000000000011011  
US-11-348-413-450443

Query Match 58.1%; Score 12.2; DB 9; Length 25;  
Best Local Similarity 52.9%; Pred. No. 1.8e+04;  
Matches 9; Conservative 5; Mismatches 3; Indels 0; Gaps 0;

Qy 3 CUGCGUGCCUCCUCACU 19  
|:|:| |:| |:| |:| |:|  
Db 18 CTGCTTGTCTACTCACT 2

# RESULT 37

US-11-348-413-450444/c  
; Sequence 450444, Application US/11348413  
; Publication No. US20060160121A1  
; GENERAL INFORMATION:  
; APPLICANT: Wyeth  
; APPLICANT: Mounts, William M  
; APPLICANT: Murphy, Ellen  
; APPLICANT: Olmsted, Stephen  
; TITLE OF INVENTION: PROBE ARRAYS FOR DETECTING MULTIPLE STRAINS OF DIFFERENT SPECIE  
; FILE REFERENCE: 031896-084100 (AM 101724)  
; CURRENT APPLICATION NUMBER: US/11/348,413  
; CURRENT FILING DATE: 2006-02-07  
; PRIOR APPLICATION NUMBER: PCT/US05/035471  
; PRIOR FILING DATE: 2005-10-05  
; PRIOR APPLICATION NUMBER: US 11/243,445  
; PRIOR FILING DATE: 2005-10-05  
; PRIOR APPLICATION NUMBER: US 60/615,573  
; PRIOR FILING DATE: 2004-10-05  
; NUMBER OF SEQ ID NOS: 1276209

```

; SEQ ID NO 450444
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: probe
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(25)
; OTHER INFORMATION: SEQ ID NO: 13530; WAN01UPK7; Start 147; Stop 171;
; OTHER INFORMATION: 000000000011011
US-11-348-413-450444

```

```

Query Match          58.1%; Score 12.2; DB 9; Length 25;
Best Local Similarity 52.9%; Pred. No. 1.8e+04;
Matches      9; Conservative      5; Mismatches      3; Indels      0; Gaps      0;

```

```

Qy      3 CUGCGUGCCUCCUCACU 19
        |:|: |:| |:| |:|:
Db      17 CTGCTGTCTACTCACT 1

```

#### RESULT 38

```

US-11-348-413-830449
; Sequence 830449, Application US/11348413
; Publication No. US20060160121A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; APPLICANT: Murphy, Ellen
; APPLICANT: Olmsted, Stephen
; TITLE OF INVENTION: PROBE ARRAYS FOR DETECTING MULTIPLE STRAINS OF DIFFERENT SPECIE
; FILE REFERENCE: 031896-084100 (AM 101724)
; CURRENT APPLICATION NUMBER: US/11/348,413
; CURRENT FILING DATE: 2006-02-07
; PRIOR APPLICATION NUMBER: PCT/US05/035471
; PRIOR FILING DATE: 2005-10-05
; PRIOR APPLICATION NUMBER: US 11/243,445
; PRIOR FILING DATE: 2005-10-05
; PRIOR APPLICATION NUMBER: US 60/615,573
; PRIOR FILING DATE: 2004-10-05
; NUMBER OF SEQ ID NOS: 1276209
; SEQ ID NO 830449
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: probe
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(25)
; OTHER INFORMATION: SEQ ID NO: 6414; WAN01UKPU_at; Start 73; Stop 97;
; OTHER INFORMATION: 000000011100000
US-11-348-413-830449

```

```

Query Match          58.1%; Score 12.2; DB 9; Length 25;
Best Local Similarity 58.8%; Pred. No. 1.8e+04;
Matches     10; Conservative      4; Mismatches      3; Indels      0; Gaps      0;

```

```

Qy      1 GGCUGCGUGCCUCCUCA 17
        |||: |:| |:| |:|:

```

Db

9 GGCTGTGTGGCTCCTAA 25

RESULT 39

US-11-348-413-849250/c

; Sequence 849250, Application US/11348413

; Publication No. US20060160121A1

; GENERAL INFORMATION:

; APPLICANT: Wyeth

; APPLICANT: Mounts, William M

; APPLICANT: Murphy, Ellen

; APPLICANT: Olmsted, Stephen

; TITLE OF INVENTION: PROBE ARRAYS FOR DETECTING MULTIPLE STRAINS OF DIFFERENT SPECIE

; FILE REFERENCE: 031896-084100 (AM 101724)

; CURRENT APPLICATION NUMBER: US/11/348,413

; CURRENT FILING DATE: 2006-02-07

; PRIOR APPLICATION NUMBER: PCT/US05/035471

; PRIOR FILING DATE: 2005-10-05

; PRIOR APPLICATION NUMBER: US 11/243,445

; PRIOR FILING DATE: 2005-10-05

; PRIOR APPLICATION NUMBER: US 60/615,573

; PRIOR FILING DATE: 2004-10-05

; NUMBER OF SEQ ID NOS: 1276209

; SEQ ID NO 849250

; LENGTH: 25

; TYPE: DNA

; ORGANISM: Artificial

; FEATURE:

; OTHER INFORMATION: probe

; FEATURE:

; NAME/KEY: misc\_feature

; LOCATION: (1)..(25)

; OTHER INFORMATION: SEQ ID NO: 6900; WAN01ULNJ\_at; Start 278; Stop 302;

; OTHER INFORMATION: 000000011100000

US-11-348-413-849250

Query Match 58.1%; Score 12.2; DB 9; Length 25;

Best Local Similarity 58.8%; Pred. No. 1.8e+04;

Matches 10; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

Qy 1 GGCUGCGUGCCUCCUCA 17

| | : ||: |||: | : ||

Db 24 GTCTCCGTGCCTCATCA 8

RESULT 40

US-11-348-413-1007606/c

; Sequence 1007606, Application US/11348413

; Publication No. US20060160121A1

; GENERAL INFORMATION:

; APPLICANT: Wyeth

; APPLICANT: Mounts, William M

; APPLICANT: Murphy, Ellen

; APPLICANT: Olmsted, Stephen

; TITLE OF INVENTION: PROBE ARRAYS FOR DETECTING MULTIPLE STRAINS OF DIFFERENT SPECIE

; FILE REFERENCE: 031896-084100 (AM 101724)

; CURRENT APPLICATION NUMBER: US/11/348,413

; CURRENT FILING DATE: 2006-02-07

; PRIOR APPLICATION NUMBER: PCT/US05/035471

; PRIOR FILING DATE: 2005-10-05

; PRIOR APPLICATION NUMBER: US 11/243,445



; PRIOR FILING DATE: 2005-10-05  
; PRIOR APPLICATION NUMBER: US 60/615,573  
; PRIOR FILING DATE: 2004-10-05  
; NUMBER OF SEQ ID NOS: 1276209  
; SEQ ID NO 1007606  
; LENGTH: 25  
; TYPE: DNA  
; ORGANISM: Artificial  
; FEATURE:  
; OTHER INFORMATION: probe  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: (1)..(25)  
; OTHER INFORMATION: SEQ ID NO: 11333; WAN01UH2D\_at; Start 483; Stop 507;  
; OTHER INFORMATION: 000000000011111  
US-11-348-413-1007606

Query Match 58.1%; Score 12.2; DB 9; Length 25;  
Best Local Similarity 58.8%; Pred. No. 1.8e+04;  
Matches 10; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

Qy 1 GGCUGCGUGCCUCCUCA 17  
|||: |:|||:| :||  
Db 23 GGCTAAGTGCCTCATCA 7

Search completed: November 20, 2006, 06:32:00  
Job time : 136 secs

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SCORE 1.3 BuildDate: 12/06/2005

---

Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGCUGCGUGCCUCCUCACUGG 21  
 |||  
 Db 1 GGCUGCGUGCCUCCUCACUGG 21

RESULT 4

US-10-728-491-22  
 ; Sequence 22, Application US/10728491  
 ; Publication No. US20040142896A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Wang, Jui, H  
 ; TITLE OF INVENTION: High Efficacy Antisense RI alpha PKA Poly-DNP Oligoribonucleoti  
 ; FILE REFERENCE: 11520.0338  
 ; CURRENT APPLICATION NUMBER: US/10/728,491  
 ; CURRENT FILING DATE: 2003-12-05  
 ; PRIOR APPLICATION NUMBER: US 60/431,694  
 ; PRIOR FILING DATE: 2002-12-05  
 ; NUMBER OF SEQ ID NOS: 27  
 ; SEQ ID NO 22  
 ; LENGTH: 23  
 ; TYPE: RNA  
 ; ORGANISM: artificial sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: Antisense oligoribunucleotide 22-mer  
 US-10-728-491-22

Query Match 100.0%; Score 21; DB 8; Length 23;  
 Best Local Similarity 100.0%; Pred. No. 6.3;  
 Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGCUGCGUGCCUCCUCACUGG 21  
 |||  
 Db 1 GGCUGCGUGCCUCCUCACUGG 21

RESULT 5

US-10-291-058A-8/c  
 ; Sequence 8, Application US/10291058A  
 ; Publication No. US20030220486A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Zhou, Wen-Qiang  
 ; APPLICANT: Agrawal, Sudhir  
 ; TITLE OF INVENTION: Mixed Backbone Oligonucleotides Containing Pops Blocks  
 ; TITLE OF INVENTION: to Obtain Reduced Phosphorothioate Content  
 ; FILE REFERENCE: 47508-752  
 ; CURRENT APPLICATION NUMBER: US/10/291,058A  
 ; CURRENT FILING DATE: 2002-11-08  
 ; PRIOR APPLICATION NUMBER: US 09/283,431  
 ; PRIOR FILING DATE: 1999-04-01  
 ; NUMBER OF SEQ ID NOS: 8  
 ; SOFTWARE: FastSEQ for Windows Version 4.0  
 ; SEQ ID NO 8  
 ; LENGTH: 30  
 ; TYPE: RNA  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: RNA phosphodiester  
 US-10-291-058A-8

u0/9950409

Query Match 100.0%; Score 21; DB 7; Length 30;  
Best Local Similarity 76.2%; Pred. No. 6;  
Matches 16; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGCUGCGUGCCUCCUCACUGG 21  
|||:||||:||||:||||:|  
Db 28 GGCTGCGTGCCTCCTCACTGG 8



RESULT 6

US-10-728-491-21  
; Sequence 21, Application US/10728491  
; Publication No. US20040142896A1  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Jui, H.  
; TITLE OF INVENTION: High Efficacy Antisense RI alpha PKA Poly-DNP Oligoribonucleoti  
; FILE REFERENCE: 11520.0338  
; CURRENT APPLICATION NUMBER: US/10/728,491  
; CURRENT FILING DATE: 2003-12-05  
; PRIOR APPLICATION NUMBER: US 60/431,694  
; PRIOR FILING DATE: 2002-12-05  
; NUMBER OF SEQ ID NOS: 27  
; SEQ ID NO 21  
; LENGTH: 20  
; TYPE: RNA  
; ORGANISM: artificial sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense oligoribunucleotide 20-mer  
US-10-728-491-21

Query Match 95.2%; Score 20; DB 8; Length 20;  
Best Local Similarity 100.0%; Pred. No. 19;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGCUGCGUGCCUCCUCACUG 20  
|||||||  
Db 1 GGCUGCGUGCCUCCUCACUG 20

RESULT 7

US-10-728-491-10  
; Sequence 10, Application US/10728491  
; Publication No. US20040142896A1  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Jui, H.  
; TITLE OF INVENTION: High Efficacy Antisense RI alpha PKA Poly-DNP Oligoribonucleoti  
; FILE REFERENCE: 11520.0338  
; CURRENT APPLICATION NUMBER: US/10/728,491  
; CURRENT FILING DATE: 2003-12-05  
; PRIOR APPLICATION NUMBER: US 60/431,694  
; PRIOR FILING DATE: 2002-12-05  
; NUMBER OF SEQ ID NOS: 27  
; SEQ ID NO 10  
; LENGTH: 21  
; TYPE: RNA  
; ORGANISM: artificial sequence  
; FEATURE:  
; OTHER INFORMATION: One-base mismatch at position 21 with poly-DNP-RNA-21  
US-10-728-491-10

Query Match 95.2%; Score 20; DB 8; Length 21;